# BRUHAT BANGALORE MAHANAGARA PALIKE

No. BBMP/YNK/EE(Pr)/AS/205/2018-19

Office of the Executive Engineer,
Project Division Yelahanka Zone,
Bangalore, Dated: 6/09/18

## ADMINISTRATIVE SANCTION MEMO

***Sub:*** Administrative Sanction to Estimate: **Construction of Swimming pool at Amrutha Nagara Byatarayanapura Ward No.07**

* * * *

The Assistant Executive Engineer (Project) has submitted estimate for **Rs.700.00 Lakhs** based on S.R. of 2016-17 P.W.D for Administrative Sanction. The work belongs to 2014-15 **Nagarothana Grants Vide GO No:UDD/187/SFC/2014 Dt:27-01-2015**, Sl.No:514

This work is approved by Government Vide GO No:UDD/256/MNY/2018 Bangalore Dated: 25-08-2018. Administrative Sanction to the estimate noted below is as per the powers delegated by the Commissioner in the Proceedings No.B12(1)PR/[illegible]/2011-12 Dated: 05/05/2016 (Point No: 03).

| *Name of the Work* | *Estimated Amount* |
|---|---|
| **Construction of Swimming pool at Amrutha Nagara Byatarayanapura Ward No.07** | Rs.700.00Lakhs<br>Rupees: Rupees Seven Hundred Crore (s) Only<br>***Registered in E.E. (Project)***<br>**Vide Page No.** 5849 **Sl. No.** 205 |
| ***Job Number: 007-15-000059*** | |

The following [illegible]s shall be attended by the Asst., Executive Engineer (Project) Sub-Division:-

- Data shall be worked out and got approved for Non-schedule rate items provided in the estimat
- Quotations should be invited and got approved for Market rates provided in the estimat

Executive Engineer,
Project Division, Yelahanka Zone
Bruhat Bangalore Mahanagara Palike.
6/9/18

**BRUHAT BANGALORE MAHANAGARA PALIKE**

No: EE (Project) Ynk Zone WO 12 18-19

Office of the Executive Engineer,
Project Division, Yelahanka Zone,
NH-7 Road, Bangalore-92.
Date: 07-09-2018

# WORK ORDER

**To,**
**Sri.K. Somappa**
No.139/A, 6th Main Mathikere,
Bangalore-560 054

**Sir,**

**Sub:** - Tender for the work of **"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"**

**Ref:** - 1) Tender Notification No:BBMP/YNK/EE(PROJECT)/TEND/23/2017-18, Dated:18.12.2017 and BBMP/2017-18/BD/WORK_INDENT28222
2) Tender Approval No: UDD 256 MNY 2018 Bangalore, Dt: 25-08-2018
3) Agreement No:EE/Project/AG No: 12 /18-19, Dt: 07-09-2018

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Pursuant to your furnishing the requisite security deposit as stipulated in ITT Clause 29.1 and signing of the contract agreement for the work of **"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07".** Tender Contract Price of **Rs.7,00,75,262.09/- (Rupees Seven Crores Seventy five thousand two hundred Sixty two only) which works out to be (+) 1.99% above the estimated cost of Rs.6,87,06,949.34** of CSR 2016-17. Vide Reference 2

You are hereby instructed to proceed with the execution of the above said work in accordance with the contract documents in consultation of AEE (Project sub-division) and complete the work within stipulated time of 350 days from the date of handing over of site by AEE (Project Sub Division) Yelahanka Zone. A copy of the rate list is herewith enclosed for your information and guidance.

Yours faithfully,

Executive Engineer,
Project Division, Yelahanka Zone. 7/9

**Copy submitted to,**

5. The Joint Commissioner (Yelahanka), for kind information.
6. The Chief Engineer (Yelahanka), for kind information.
7. The A.O (Project), for information.
8. Office file

Received
on 7-9-2018

(54)

# ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಸಂಖ್ಯೆ:ಬೃ.ಬೆಂ.ಮ.ಪಾ/ಮು.ಅ/ತಾಂ.ಮ/ಯ.ವ/ಪಿ.ಆರ್/432/2017-18

ಮುಖ್ಯಅಭಿಯಂತರವರ ಕಛೇರಿ
ಯಲಹಂಕ ವಲಯ,ಬೃ.ಬೆಂ.ಮ.ಪಾ.
ಬೆಂಗಳೂರು -92.
ದಿನಾಂಕ: 11.12.2017

## ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ

**ವಿಷಯ:** Construction of Swimming Pool at Amruthanagara Byatarayanpura Ward No.07

**ಉಲ್ಲೇಖ** ಮುಖ್ಯ ಲೆಕ್ಕಾಧಿಕಾರಿ ರವರ ಕಛೇರಿ ಕಾಮಗಾರಿ ಸಂಕೇತ: 007-15-000059

* * * * *

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯಲಹಂಕ ವಿಭಾಗ) ರವರು **2016-17** ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ(ಪರಿಷ್ಕೃತ)ದರಪಟ್ಟಿಯಂತೆ ಪಿ-1732 ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆಯಡಿಯಲ್ಲಿ ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿಯನ್ನು ರೂ.700.00 ಲಕ್ಷಗಳಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಿ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಗಾಗಿ ಸಲ್ಲಿಸಿರುತ್ತಾರೆ.

ಮಾನ್ಯ ಆಯುಕ್ತರವರು ಅಧಿಕಾರ ಪ್ರತ್ಯಾಯೋಜಿಸಿ ಹೊರಡಿಸಿರುವ ಆದೇಶ ಸಂಖ್ಯೆ:ಬಿ12(1)ಪಿ.ಆರ್/394/2011-12 ದಿನಾಂಕ:05-05-2016ಲ್ಲಿ ನೀಡಿರುವ ಅಧಿಕಾರದನ್ವಯ ಸದರಿ ಕಾಮಗಾರಿಗೆ ಕೆಳಗಿನ ಷರತ್ತುಗಳನ್ವಯ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಯನ್ನು ನೀಡಲಾಗಿದೆ ಹಾಗೂ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ಪುಸ್ತಕ ಪುಟ ಸಂಖ್ಯೆ184-85 ಕ್ರ.ಸಂ 432 ರಲ್ಲಿ ಈ ಕೆಳಗಿನ ಷರತ್ತುಗಳಂತೆ ದಾಖಲಿಸಲಾಗಿದೆ.

**ಷರತ್ತುಗಳು:**

1. ಕಾಮಗಾರಿಯನ್ನು ಕರ್ನಾಟಕ ಪಾರದರ್ಶಕ ನಿಯಮಾನುಸಾರ ನಿರ್ವಹಿಸಲು ಕ್ರಮ ವಹಿಸುವುದು.
2. ರಸ್ತೆ ಇತಿಹಾಸ ಪುಸ್ತಕದಲ್ಲಿ (Road History Book/Poperty register) ಈ ಕೆಲಸದ ವಿವರಗಳನ್ನು ದಾಖಲಿಸಿ ಕ್ರಮಬದ್ಧಗೊಳಿಸುವುದು.
3. ಕೆಲಸದ ಸ್ಥಳದಿಂದ ಸಾಗಣೆ ದೂರಕ್ಕೆ ಅನುಮೋದನೆ ಪಡೆಯುವುದು.
4. ಆರ್.ಸಿ.ಸಿ ಡೆಕ್‌ಸ್ಲಾಬ್, ಹರಿನೀರು ಮೋರಿಯ ಆಸರೆಗೋಡೆ ಮತ್ತು ಸೇತುವೆ ಕೆಲಸಗಳ ನಿರ್ವಹಣೆಗೆ ಮೊದಲು ವಿನ್ಯಾಸಕ್ಕೆ ಸಕ್ಷಮ ಪ್ರಾಧಿಕಾರದಿಂದ ಅನುಮೋದನೆ ಪಡೆಯುವುದು.

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-92

**ಪ್ರತಿಯನ್ನು:**

1. ಸಹಾಯಕ ಹಣಕಾಸು ನಿಯಂತ್ರಕರು, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ರವರ ಮಾಹಿತಿಗಾಗಿ.
2. ಮುಖ್ಯ ಲೇಕ್ಕಾಧಿಕಾರಿಗಳು, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ರವರ ಮಾಹಿತಿಗಾಗಿ.

Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Project Division

Name of Work:CONSTRUCTION OF SWIMMING POOL AT WARD NO.7, AMRUTHNAGAR, BYATARAYANAPURA ASSEMBLY CONSTITUENCY, BANGALORE

## Draft Tender Schedule

| Item No. | Description | Unit | Quantity | Rate, Rs | |
|---|---|---|---|---|---|
| | | | | In Figures | In Words |
| 1 | Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification | Cum | 2892.86 | 305.64 | |
| 2 | Providing sand piles with all leads and lift of 1.5 m. for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m. at 0.5 m c to c and filling with sand and tamping wherever required including cost of materials, labour complete as per specifications(.sand and 10% cement) | Sqm | 800 | 233.28 | |
| 3 | Providing sand cement bed with 5% cement with all cum leads for all materials and lift of 1.5 m. machine mixed, laid in layers of 15cms. thick and well compacted for foundation, including curing cost of materials labour and HOM complete as per specifications. | Cum | 800 | 3349.08 | |
| 4 | Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour complete as per specifications. | Cum | 269.12 | 137.16 | |
| 5 | Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed. | Cum | 2623.74 | 108 | |
| 6 | Providing and filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification. | Cum | 287.22 | 2283.12 | |
| 7 | Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications. | Cum | 245.97 | 5449.68 | |
| 8 | Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixedf concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc complete(excluisive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M 25(for Side Walls and Bottom) | Cum | 1410.76 | 6530.20 | |
| 9 | Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as Walls at any thickness, incluidng attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specfiications.Main Pool-Bottom Concrete-Centering all round | Sqm | 816.72 | 414.72 | |
| 10 | Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of size 30 x 30 cms 6mm thick | Sqm | 1215 | 1230.08 | |
| 11 | Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications. | Sqm | 33 | 6638.76 | |
| 12 | Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as eper specifications and Extra for providing and mixing Waterproofing compound in cement plaster work at one kg per bag or in the proportion recomended by the manufacturers, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications. | Sqm | 984 | 293.76 | |
| 13 | Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500 | MT | 155.18 | 76329.00 | |

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|---|---|---|---|---|---|
| 14 | Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing cpmplete as per specification. | Sqm | 842 | 1171.8 | |
| 15 | Providing and constructing precast concrete Solid Blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size **40x20x20cms** confirming to I.S 2185/1965 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications. | Sqm | 2504.92 | 1011.96 | |
| 16 | Providing and constructing granite / trap / basalt Size Stone Masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications | Cum | 76.68 | 4359.96 | |
| 17 | Providing and removing Centering, shuttering, strutting, propping etc., for **columns,** pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge. | Sqm | 928 | 395.28 | |
| 18 | Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of **beams,** beam haunchings, cantilever girders, bressuemers and lintles exceeding 1 m in depth incluidng cost of all materials, labour complete as per specifications. | Sqm | 391.2 | 365.04 | |
| 19 | Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs landings balconies and likes thickness upto 200 mm including cost of all materials labour complete as per specifications upto 3.50m from Ground level | Sqm | 2395.6 | 961.02 | |
| 20 | Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.**For Outside Plastering** | Sqm | 3459.46 | 277.56 | |
| 21 | Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge Providing lime rendering for plastering to wall and ceiling including cost of mate3rials labour curing complete as per specifications **Internal wall platering** | Sqm | 4327.86 | 306.72 | |
| 22 | Providing and laying Hassan Green **Granite flooring for Staircase,** treads and rises using pre polished 20mm thick water cut green Granite Slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 lline grooves not more than 2mm wide for antiskidding, curing etc., complete. | Sqm | 72.09 | 4305.96 | |
| 23 | Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of **size 30 x 30 cms 6mm thick** | Sqm | 180 | 1270.08 | |
| 24 | Providing ACE paint to external walls of approved colour and shade over prime's coat.after brooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,lead lift with loading unloading etc.complete as per direction of Engineer in charge of work.( Approved rates) | Sqm | 3459.46 | 160 | |
| 25 | Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications | Sqm | 5706.42 | 60.48 | |
| 26 | Providing and applying painting in two coats with **plastic Emulsion paint** of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge.**with primer** | Sqm | 5706.42 | 97.2 | |
| 27 | Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials,labour, curing complete as per specifications.Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3 12mm thick cost of materials complete as per specifications. | Sqm | 1378.56 | 208.44 | |

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|---|---|---|---|---|---|
| 29 | Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.30, I. 9.4) PRED.SR 2012-13 | Each | 2.00 | 1900.00 | |
| 30 | Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 0 to 50m | m | 100 | 306 | |
| 31 | Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 50 to 100m | m | 100 | 400 | |
| 32 | Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 100 to 150m | m | 100 | 445 | |
| 33 | Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 150 to 200m | m | 100 | 470 | |
| 34 | Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 200 to 250 m | m | 100 | 544 | |
| 35 | Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 250 to 300 m | m | 100 | 583 | |
| 36 | Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) as per corragandam | m | 140 | 1325 | |
| 37 | Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work | m | 160 | 754.47 | |
| 38 | Providing and fixing 175mm Borewell Cap | Nos | 2 | 150 | |
| 39 | Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 17.50 HP 40 stage. | Nos | 2 | 44000 | |

| | | | | | |
|---|---|---|---|---|---|
| 40 | Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. **50 mm dia including Collar Heavy Class** | m | 700 | 415 | |
| 41 | Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 **Sqm mm of 36 strands 0.3mm dia Group -** | m | 1400 | 151 | |
| 42 | Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) | Nos | 2 | 3000 | |
| 43 | Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., | Nos | 2 | 285 | |
| 44 | Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.P No. 67/ I No. 10(d) **4 core 16 Sqmm KPWD Electrical SR 2007-08** | m | 120 | 150 | |
| 45 | Labour charges for laying of 1.1 K.V class UG cable | per Length | 120 | 8 | |
| 46 | Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR | Rmtr | 60 | 60 | |
| 47 | Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class | Rmtr | 30 | 240 | |
| 48 | Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, | Rmtr | 4 | 1950 | |
| 49 | Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete... | Nos | 6 | 120 | |
| 50 | Providing and fixing in position **50mm** nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. | Nos | 2 | 1114 | |
| 51 | Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 93/ I. No. 13.81.3 **PWD SR 2007-08** | Nos | 2 | 201.4 | |
| 52 | Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete | Nos | 2 | 80 | |
| 53 | Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications | Nos | 2 | 350 | |
| 54 | Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications | Nos | 2 | 1000 | |
| 55 | Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **15HP to 30 HP Star Delta Starter** | Nos | 2 | 65700 | |
| 56 | Providing and instalation at site of works **P.V.C.Pipes** including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., | m | 250 | 253.8 | |

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| 57 | KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. | Nos | 4 | 2781 | |
| 58 | Providing and laying wooden floor for batmitun court & Gym room using 50x75mm Runners at the intervals of 0.45 both ways using mathi/sal wood with nailing properly fixing to existing roof concrete and above the Runners the planks of teakwood using tung & groove system with necessary chemicals niles. polishing to be made for the teakwood planks. Approved Rate | Sqm | 1080 | 12000 | |
| 59 | Providing and laying 1.35mm pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.. Approved Rate | Sqm | 1560 | 2916 | |
| 60 | Supply, installtion, testing and commissioning of filters Commercial Bobin wound filter with 160mm fiange connection - 157 cumtr/hr Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work | Nos | 2 | 535000 | |
| 61 | Supply, installtion, testing and commissioning of VALVE BATTERY Frontal Valve Assembly 160 mm connections with Valve support and Brackets Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work | Set | 2 | 215940 | |
| 62 | Supply, installtion, testing and commissioning of RECIRCULATING PUMPS 10 HP monoblock centrifugal pump 400V 3ph discharge:45 LPS at 13m head suction size:150mm, delivery: 150mm includes 1no standby directions of the Engineer-In-charge of the work | Nos | 3 | 74290 | |
| 63 | Supply, installtion, testing and commissioning of FLOOR INLETS bottom inlet for concrete with S.S. screws made of ABS plastic. Max. flow: 10cum/hr 2 inches threaded fitting directions of the Engineer-In-charge of the work | Nos | 50 | 875 | |
| 64 | Supply, installtion, testing and commissioning of GUTTER GRATINGS Made in white, U.V. Stabilized PP. Width: 245mm, Height : 35mm directions of the Engineer-In-charge of the work | Nos | 72 | 3060 | |
| 65 | Supply, installtion, testing and commissioning of MAIN DRAIN GRATING COVER, material : SS 304 500mm x 500mmx6mm thick with slot openings of 6mm directions of the Engineer-In-charge of the work | Nos | 2 | 21000 | |
| 66 | Supply, installtion, testing and commissioning of STAINLESS STEEL PREFILTER 6 inches opening with threaded collar with sight glass, SS sieve, flow:170cum/hr Material: SS 304 directions of the Engineer-In-charge of the work | Nos | 3 | 41500 | |
| 67 | Supply, installtion, testing and commissioning of SUCTION INLETS ABS plastic, 2 inches external DIA glue type Flow:3.5 cum/hr, with threaded cap directions of the Engineer-In-charge of the work | Nos | 50 | 875 | |
| 68 | Supply, installtion, testing and commissioning of STAINLESS STEEL LADDERS made of SS 316 with pipe dia 38mm with non skid steps with embossed finish or checkered finish overflow model No of steps = 3 directions of the Engineer-In-charge of the work | Nos | 2 | 51750 | |
| 69 | No of steps = 4 directions of the Engineer-In-charge of the work | Nos | 2 | 55315 | |
| 70 | No of steps = 5 directions of the Engineer-In-charge of the work | Nos | 2 | 66125 | |
| 71 | Supply, installtion, testing and commissioning of MAINTENANCE KIT COMPRISING OF: a) LEAFE RAKE Deep bag net made in polypropylene and polyester netting butterfly nut connection directions of the Engineer-In-charge of the work | Nos | 1 | 2000 | |
| 72 | Curved brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work | Nos | 1 | 2400 | |
| 73 | Straight brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work | Nos | 1 | 2400 | |
| 74 | Reinforced aluminium telescopic handle 2.4/4.8m with clip connection directions of the Engineer-In-charge of the work | Nos | 1 | 4400 | |
| 75 | Metallic Anodized Aluminium Vacuum head directions of the Engineer-In-charge of the work | Nos | 1 | 19700 | |
| 76 | Extensible handles for cleaning attachments in anodized aluminium which can be adapted to the entire range of cleaning equipment, brushes, leaf skimmers and scoops 10m long directions of the Engineer-In-charge of the work | Nos | 1 | 4370 | |

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| 77 | Transparent blue plastic vacuum hose 11/2" dia 30mtr slong including hose cuffs for connection to suction inlets directions of the Engineer-In-charge of the work | Nos | 1 | 7100 | |
| 78 | Supply, installtion, testing and commissioning of TEST KIT for checking free Chlorine & pHTablet type DPD directions of the Engineer-In-charge of the work | Nos | 1 | 1650 | |
| 79 | Supply, installtion, testing and commissioning of POOL CLEANER trolly mounted with 1.5 Hp self priming pump with prefillter, starter and 63mm flexible hose directions of the Engineer-In-charge of the work | Nos | 1 | 49000 | |
| 80 | Supply, installtion, testing and commissioning of LANE SEPERATOR ROPES directions of the Engineer-In-charge of the work | Nos | 6 | 38500 | |
| 81 | Supply, installtion, testing and commissioning of ANCHOR HOOKS STAINLESS STEEL fixed to end walls for lane ropes directions of the Engineer-In-charge of the work | Nos | 12 | 3300 | |
| 82 | Supply, installtion, testing and commissioning of CONTRL PANNEL WIRING, floor mounted CP, Control of Mtrs, volts meter, 3 Phase indicater System, Change over shutter, ELCB, MCB, Pump, coverage to each indicator relay, cable and conduit with pump engineers specification directions of the Engineer-In-charge of the work | Nos | 1 | 100000 | |
| 83 | Supply, installtion, testing and commissioning of GAS CHLORINATION SYSTEM vacuum type cylinder mounted gas (DCM) chlorinator capacity 0-500 gms/hr, chlorination system consisting of filter Assembly, Vacuum Regulator, flow meter assembly, control valve assembly, injector assembly including booster pump assembly and piping complete directions of the Engineer-In-charge of the work | Nos | 1 | 327750 | |
| 84 | Supply, installtion, testing and commissioning of BUTTERFLY VALVES Wafer type PN 10 STD,replacable EPDM sleeve CI body with SS316 disc a) 10 INCHES directions of the Engineer-In-charge of the work | Nos | 2 | 26220 | |
| 85 | Supply, installtion, testing and commissioning of NON RETURN VALVES Material: gun metal Size: 8 inches directions of the Engineer-In-charge of the work | Nos | 2 | 19700 | |
| 86 | Supply, installtion, testing and commissioning of UPVC PIPES a) 400 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work | m | 77 | 4900 | |
| 87 | d) 63 MM DIA 10KG/SQCM directions of the Engineer-In-charge of the work | m | 49 | 260 | |
| 88 | e) 160 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work | m | 220 | 2000 | |
| 89 | Supply, installtion, testing and commissioning of UPVC ELBOW 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work | Nos | 10 | 4025 | |
| 90 | c) 400 MM directions of the Engineer-In-charge of the work | Nos | 9 | 26800 | |
| 91 | e)160 MM directions of the Engineer-In-charge of the work | Nos | 28 | 1650 | |
| 92 | Supply, installtion, testing and commissioning of UPVC TEE 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work | Nos | 49 | 2750 | |
| 93 | c) 400 MM directions of the Engineer-In-charge of the work | Nos | 10 | 18055 | |
| 94 | e)160 MM directions of the Engineer-In-charge of the work | Nos | 7 | 1650 | |
| 95 | Supply, installtion, testing and commissioning of UPVC REDUCER 6 KG/SQCM a) 160/400 directions of the Engineer-In-charge of the work | Nos | 7 | 20800 | |
| 96 | 63/160 directions of the Engineer-In-charge of the work | Nos | 49 | 1090 | |
| 97 | Supply, installtion, testing and commissioning of STARTING BLOCKS FIBREGLASS 400 mm height non slip finish 0.5x 0.5m with nos 1 to 9 with anchoring fixtures directions of the Engineer-In-charge of the work | Nos | 6 | 26220 | |
| 98 | Providing and fixing of white colour vitreous China clay,water closet **European type** (pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,PVC flush cistern (all are approved make) with fitting CI/MS brackets, 40mm diameter flush bend with fittings and clamp, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no74,lt no.12.5) | Nos | 10 | 5540 | |
| 99 | Providing and fixing of white colour vetreous China clay flat back. lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, CI /MS brackets, standard flush pipe and CP brass spreaders with brass unions and GI clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11(P.no 75,lt no.12.7) | Nos | 5 | 3204.36 | |
| 100 | Providing and fixing of white colour vetreous China clay flat back wash basin size 630x450mm with a single 15mm CP brass piller tap with CI / MS brackets, 32 mm CP brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no78 lt.no.12.24) | Nos | 10 | 3247.56 | |

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| 101 | Providing and fixing 600x450mm bevel lead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with CP screws, washers, including cost of materials, labour complete as per specifications.(P.no 79,It no.12.39) | Nos | 10 | 1351.08 | |
| 102 | Providing and fixing C.P brass towel rail 740mm length, 20 mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as per specification.(P.no 80,It no.12.45) | Nos | 10 | 845.64 | |
| 103 | Providing and fixing 15mm dia Bib Cock | Nos | 30 | 180 | |
| 104 | Providing and fixing Brass Union 15mm nominal bore with PVC Connection pipe 300mm length | Nos | 30 | 160 | |
| 105 | Providing and fixing in position brass stop cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 20mm nominal bore | Nos | 30 | 172.8 | |
| 106 | Providing and fixing in position brass bib cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 15mm nominal bore | Nos | 15 | 249.48 | |
| 108 | Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.25mm nominal pipe | m | 150 | 178.2 | |
| 109 | Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.( Burried). 50mm nominal OD Pipe | m | 10 | 486 | |
| 110 | Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.( Burried). 100mm Nominal OD Pipe | m | 10 | 2570.4 | |
| 111 | Providing and fixing water meter with stop cock, jam nut, socket in G.I pipe line including cutting and threading the pipe and making long screws including cost of all materials, labour , HOM of equipments and testing complete as per specificationsKSRB(Pag no 88. Itm 13.22) | Nos | 1 | 1423.44 | |
| 112 | Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification25mm nominal Dia | Nos | 1 | 654.48 | |
| 113 | Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.50mm Nominal Dia | Nos | 4 | 2216.16 | |
| 114 | Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification 25mm dia | Nos | 4 | 648 | |
| 115 | Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.80mm dia | Nos | 4 | 3303.72 | |
| 116 | Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 50mm dia | m | 100 | 373.68 | |
| 117 | Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 90mm dia | m | 100 | 616.68 | |
| 118 | Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 140mm dia | m | 100 | 774.36 | |
| 119 | Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).10 cmsx 7.5 | Nos | 30 | 270 | |

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| 120 | Providing and fixing 7.5 cms to 15.00 cms dia NP granting 100 mm dia Pag no 85. Itm 12.111 - | Nos | 30 | 172.8 | |
| 121 | Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table mounted non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 600x 600mm internal dimensions, total weight of cover 23kg and weight of frame 15kg) R.C.C top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications Pag no 70. Itm 11.50.1 | Nos | 10 | 7604 | |
| 122 | providing and fixing on wall surface 4 kg/sq.cm HDPE rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications P.No.47item No.8.19 | m | 300 | 613.44 | |
| 123 | Providing & fixing of glazed Openable Window made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanixed iron profiles throuhout the window. The outer frame having a overall size of 60x55 mm with reinforcement of 1 mm thickness, mullion with overall size of 74x60 mm with reinforcement of 1 mm and sash with overall size of 75x60 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 34x20 mm and coextruded with gasket. Windows shall be provided with 5mm plain float glass, standard hardware & single point locking system of flush lock, Wall thickness of frame, mullion & sash shall be 2-2.2 mm. | Sqm | 87.6 | 7560 | |
| | **PART A:- SUBSTATION EQUIPMENT** | | | | |
| 124 | Supply and erection of 11Mtr Spun Pole including earth work etc,. complete as per the standard technical specification directions of the Engineer-In-charge of the work | Each | 1.00 | 22957.00 | |
| 125 | Supply And Fixing of Single Pole Mounted Transformer Kit for 100/250KVA on 11Mtr Spun Pole etc. complete as per the standard technical specification of directions of the Engineer-In-charge of the work | Each | 1.00 | 31800.00 | |
| 126 | Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work 5.8.8) GOS Set 200 Amps Single break | Each | 1.00 | 9840.00 | |
| 127 | Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work5.8.1) H Frame Set | Each | 1.00 | 4560.00 | |
| 128 | Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification 5.4.3) Horizontal. 50x450x6mm -980mm directions of the Engineer-In-charge of the work | Each | 2.00 | 562.00 | |
| 129 | Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.9.4) Disc Insulator 70/90 KN directions of the Engineer-In-charge of the work | Each | 6.00 | 540.00 | |
| 130 | Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.9.3)11 KV Pin Insulator directions of the Engineer-In-charge of the work | Each | 6.00 | 114.00 | |
| 131 | Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.8)HT ST Support 50x8 mmdirections of the Engineer-In-charge of the work | Each | 2.00 | 172.00 | |
| 132 | Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification 5.4.1)4 Pin 45x45x5mm -1110mm directions of the Engineer-In-charge of the work | Each | 4.00 | 461.00 | |
| 133 | Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.10)Horn Gap Fuse Unit (H.G.) directions of the Engineer-In-charge of the work | Each | 1.00 | 1320.00 | |

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| 134 | Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.12)Lightning Arrestor 9KV 5kA polymeric type. directions of the Engineer-In-charge of the work | Each | 1.00 | 4250.00 | |
| 135 | Supplying erection, testing and commissioning of 11kV Load Break Switch with 4 wire- ( with Neutral) Metering cubicle and connected accessories, hardware's etc. suitable for outdoor type complete as per latest IS standard technical specification. LBS should be approved by BESCOM System :11KV, 3PH, 50HZ, | Each | 1.00 | 319987.00 | |
| 136 | Caution/Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07 directions of the Engineer-In-charge of the work | Nos | 2.00 | 163.00 | |
| 137 | GI Pipes B - Class<br>GI Pipe - 150 mm Dia Dia 768058 directions of the Engineer-In-charge of the work | m | 10.00 | 1144.00 | |
| 138 | TRANSFORMER:- Supplying, erecting, testing and commissioning of ..... KVA capacity Copper wound Distribution Transformer 11KV/433V with Off Load Tap Switch, Buchholtz relay winding temperature indicator, oil temperature indicator, marshalling box with wiring, magnetic oil level indicator with +5% to-10% Steps of 2.5% with HT and LT cable end boxes including all standard accessories as per latest IS standard technical specification.<br>8.10.2) 100 KVA directions of the Engineer-In-charge of the work | Each | 1.00 | 328700.00 | |
| 139 | LT KIOSK:- LT Distribution Box for 63/100 KVA Transformer with 1No 160Amps 25kA 4Pole MCCB, suitable capacity aluminum bus bar mounted in 16SWG powder coated M.S.Box suitable to mount at Transformer Centre directions of the Engineer-In-charge of the work | Set | 1.00 | 18270.00 | |
| 140 | B. EARTHING SYSTEM<br>Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit _ The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia directions of the Engineer-In-charge of the work | Each | 6.00 | 2727.00 | |
| 141 | Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. directions of the Engineer-In-charge of the work | Each | 8.00 | 4317.00 | |
| 142 | Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip directions of the Engineer-In-charge of the work | m | 17.00 | 523.00 | |
| 143 | Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x6mm Copper strip directions of the Engineer-In-charge of the work | m | 12.00 | 1018.00 | |
| 144 | Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required.600x600x3mm plate directions of the Engineer-In-charge of the work | m | 4.00 | 7148.00 | |
| 145 | Supplying and running of GI strips for grounding connections, using necessary fixing materials as required.<br>25x3mm GI strip directions of the Engineer-In-charge of the work | m | 109.00 | 77.00 | |
| 146 | Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 40x6mm GI strip directions of the Engineer-In-charge of the work | m | 20.00 | 166.00 | |
| 147 | Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 600x600x3mm GI Plate directions of the Engineer-In-charge of the work | m | 4.00 | 784.00 | |
| 148 | Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG directions of the Engineer-In-charge of the work | m | 35.00 | 19.50 | |

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| 149 | PART C:-L.T Panel boards and distribution boards<br>1.0) Main LT Panel<br>"Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.<br>6.40.1) 14SWG" directions of the Engineer-In-charge of the work | Sqcm | 173440.00 | 0.37 | |
| 150 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.<br>6.39.5) 75x150x75x6mm C channel directions of the Engineer-In-charge of the work | m | 5.00 | 791.00 | |
| 151 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947.<br>( Icu = Ics) FOUR POLE<br>200Amps 35kA.(Incoming) directions of the Engineer-In-charge of the work | Nos | 1.00 | 14592.00 | |
| 152 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947.<br>( Icu = Ics) FOUR POLE125-160Amps 25kA.(Outgoing) directions of the Engineer-In-charge of the work | Nos | 3.00 | 7372.00 | |
| 153 | Supplying and fixing of Shunt trip suitable for MCCB.CBCT. directions of the Engineer-In-charge of the work | Nos | 4.00 | 1486.00 | |
| 154 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP directions of the Engineer-In-charge of the work | Nos | 3.00 | 418.00 | |
| 155 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16. 5-32Amps TPN (Outgoing) directions of the Engineer-In-charge of the work | Nos | 6.00 | 1547.00 | |
| 156 | Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work | Nos | 3.00 | 442.00 | |
| 157 | Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. directions of the Engineer-In-charge of the work | Each | 1.00 | 390.00 | |
| 158 | Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work | Each | 1.00 | 140.00 | |
| 159 | Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work | Each | 1.00 | 415.00 | |
| 160 | Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer In-charge of the work | Each | 1.00 | 172.00 | |
| 161 | Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work | Each | 1.00 | 8003.00 | |
| 162 | Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work | Each | 3.00 | 483.00 | |

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| 163 | Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board. directions of the Engineer-In-charge of the work | Each | 1.00 | 7998.00 | |
| 164 | Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.<br>6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work | m | 3.00 | 2942.00 | |
| 165 | Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.6.12.1) 25Amps directions of the Engineer-In-charge of the work | Each | 4.00 | 1303.00 | |
| 166 | Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery. directions of the Engineer-In-charge of the work | Nos | 20.00 | 414.00 | |
| 167 | Supplying, fixing and wiring Automatic Power Factor controller fully, static units controlled by 14 stage microprocessor operation, relays LED display, self programming function for power stages and operating logic checking facility for healthy and efficient of each individual capacitor bank, measurement of network harmonics with indication when limit values are exceeded, Comprehensive displays with large, three place LED display, Long term memory for settings, protection for over voltage, power factor correction fault and no voltage, to connect / disconnect banks, with automatic recognition or with standard programs. directions of the Engineer-In-charge of the work | Each | 1.00 | 18660.00 | |
| 169 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.<br>6.39.5) 75x150x75x6mm C channel directions of the Engineer | m | 5.00 | 791.00 | |
| 172 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP directions of the Engineer-In-charge of the work | Each | 3.00 | 418.00 | |
| 173 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63 Amps TPN (Outgoing) directions of the Engineer-In-charge of the work | Each | 6.00 | 1936.00 | |
| 174 | Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work | Each | 3.00 | 442.00 | |
| 175 | Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. directions of the Engineer-In-charge of the work | Each | 1.00 | 390.00 | |
| 176 | Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work | Each | 1.00 | 140.00 | |
| 177 | Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work | Each | 1.00 | 415.00 | |
| 178 | Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer In-charge of the work | Each | 1.00 | 172.00 | |
| 179 | Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work | Each | 3.00 | 483.00 | |
| 180 | Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work | Each | 1.00 | 8003.00 | |

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| 181 | Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.<br>6.2.1) Upto 12.5 HP directions of the Engineer-In-charge of the work | Each | 4.00 | 6583.00 | |
| 182 | Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.<br>6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work | m | 5.00 | 2942.00 | |
| 183 | 3.0) MCB Distribution Boards<br>Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door<br>6.17.7) 4Way TP &N directions of the Engineer-In-charge of the work | Each | 3.00 | 2399.00 | |
| 184 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps TPN directions of the Engineer-In-charge of the work | Each | 3.00 | 1547.00 | |
| 185 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps SP directions of the Engineer-In-charge of the work | Each | 36.00 | 418.00 | |
| 186 | PART D:-SUBMAINS CIRCUIT MAINS/POWER WIRING<br>Open Conduit System Supplying heavy gauge PVC conduit pipe .dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.<br>19/20mm dia 2mm thick directions of the Engineer-In-charge of the work | m | 469.00 | 54.00 | |
| 187 | Open Conduit System Supplying heavy gauge PVC conduit pipedia .mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 25mm dia 2mm thick directions of the Engineer-In-charge of the work | m | 282.00 | 70.00 | |
| 188 | Open Conduit System Supplying heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 32mm dia 2.5mm thick directions of the Engineer-In-charge of the work | m | 162.00 | 100.00 | |
| 189 | Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia .mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary<br>19/20mm dia 2mm thick directions of the Engineer-In-charge of the work | m | 408.00 | 43.00 | |

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| 190 | Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary25mm dia 2mm thick directions of the Engineer-In-charge of the work | m | 1453.00 | 57.00 | |
| 191 | Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary32mm dia 2.5mm thick directions of the Engineer-In-charge of the work | m | 282.00 | 90.00 | |
| 192 | Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe.dia .mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.<br>19/20mm dia 2mm thick directions of the Engineer-In-charge of the work | m | 10.00 | 56.00 | |
| 193 | Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe .dia.mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.25mm dia 2mm thick directions of the Engineer-In-charge of the work | m | 750.00 | 58.00 | |
| 194 | Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe .dia mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.32mm dia 2.5mm thick directions of the Engineer-In-charge of the work | m | 400.00 | 88.00 | |
| 195 | Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A<br>Short point upto 3Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work | Point | 13.00 | 174.00 | |
| 196 | Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work | Point | 24.00 | 245.00 | |
| 197 | Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work | Point | 172.00 | 363.00 | |
| 198 | Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches directions of the Engineer-In-charge of the work | Point | 8.00 | 482.00 | |

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| 199 | Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Three outlet in a row, above 6Mts upto 10Mtr from tapping point to out let via switches directions of the Engineer-In-charge of the work | Point | 2.00 | 682.00 | |
| 201 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.<br>1.5 sqmm. directions of the Engineer-In-charge of the work | m | 2000.00 | 18.60 | |
| 202 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.2.5 sqmm directions of the Engineer-In-charge of the work | m | 5000.00 | 29.20 | |
| 203 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.4 sqmm directions of the Engineer-In-charge of the work | m | 1200.00 | 42.10 | |
| 204 | Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.<br>1-3Way directions of the Engineer-In-charge of the work | Each | 5.00 | 83.00 | |
| 205 | Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.4-5Way directions of the Engineer-In-charge of the work | Each | 2.00 | 102.00 | |
| 206 | Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.6Way directions of the Engineer-In-charge of the work | Each | 11.00 | 133.00 | |
| 207 | Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete. 10-12Way directions of the Engineer-In-charge of the work | Each | 11.00 | 152.00 | |
| 208 | Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.<br>1 to 3 Module directions of the Engineer-In-charge of the work | Each | 5.00 | 109.00 | |
| 209 | Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.4 Module directions of the Engineer-In-charge of the work | Each | 2.00 | 122.00 | |
| 210 | Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.6 Module directions of the Engineer-In-charge of the work | Each | 9.00 | 173.00 | |
| 211 | Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.8 Module directions of the Engineer-In-charge of the work | Each | 2.00 | 200.00 | |
| 212 | Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.10 Module directions of the Engineer-In-charge of the work | Each | 5.00 | 227.00 | |

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| 213 | Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box 12 Module directions of the Engineer-In-charge of the work | Each | 6.00 | 267.00 | |
| 214 | Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 6Amps 3way socket. directions of the Engineer-In-charge of the work | Each | 86.00 | 95.00 | |
| 215 | Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 1000-1200Watts Dimmer directions of the Engineer-In-charge of the work | Each | 15.00 | 539.00 | |
| 216 | Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 16Amps one way switch directions of the Engineer-In-charge of the work | Each | 15.00 | 114.00 | |
| 217 | Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 32Amps DP switch directions of the Engineer-In-charge of the work | Each | 13.00 | 164.00 | |
| 218 | Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A TV/Telephone socket directions of the Engineer-In-charge of the work | Each | 14.00 | 82.00 | |
| 219 | Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 6/16Amps universal socket directions of the Engineer-In-charge of the work | Each | 13.00 | 147.00 | |
| 220 | PART E:-Light Fixtures and Fan<br>Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic<br>2x4'-28Watts directions of the Engineer-In-charge of the work | Each | 24.00 | 1680.00 | |
| 221 | Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 1x4'-28Watts directions of the Engineer-In-charge of the work | Each | 76.00 | 990.00 | |
| 222 | Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.<br>Using necessary length of G.I. chain directions of the Engineer-In-charge of the work | Each | 24.00 | 210.00 | |
| 223 | Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. On wall / ceiling / Rafter / Girders directions of the Engineer-In-charge of the work | Each | 76.00 | 98.00 | |
| 224 | Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. directions of the Engineer-In charge of the work | Each | 52.00 | 176.00 | |
| 225 | Supplying CFL mirror light fitting with 1x11W CFL lamp, choke, Perspex cover and completely wired for use on 230V 50Hz AC supply directions of the Engineer-In-charge of the work | Each | 4.00 | 648.00 | |
| 226 | Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS 374-1979 and with double ball bearing system. 56" Sweep (1400mm)<br>9.3.2.1) Regular model<br>directions of the Engineer-In-charge of the work | Each | 15.00 | 2418.00 | |

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| 227 | Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired. directions of the Engineer-In-charge of the work | Each | 15.00 | 237.00 | |
| 228 | Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.<br>9.2.1)12" Sweep (300mm) directions of the Engineer-In-charge of the work | Each | 5.00 | 3654.00 | |
| 229 | Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame. directions of the Engineer-In-charge of the work | Each | 5.00 | 680.00 | |
| 230 | PART-F :- CABLE AND CABLE END TERMINATION<br>HT CABLES<br>HT Cable GROUP A: Supplying and laying of high tension 11KV cable, Dry Curing & Dry Cooling with true triple extrusion, simultaneously through a single common head, 3 core under ground XLPE (E) cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up extruded inner sheathed of GI flat strip armoured and overall PVC sheathed with specified IS 7098/11/85 with latest amendments & confirming to the GTP of GROUP-A<br>8.3.1) 3Cx95 sqmm directions of the Engineer-In-charge of the work | m | 59.00 | 1040.00 | |
| 231 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)<br>7.9.2) In soil (hard) directions of the Engineer-In-charge of the work | m | 40.00 | 106.00 | |
| 232 | LT CABLES<br>Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.<br>4 core 10 sqmm directions of the Engineer-In-charge of the work | m | 98.00 | 118.80 | |
| 233 | Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 185 sqmm directions of the Engineer-In-charge of the work | m | 53.00 | 816.00 | |
| 234 | Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 120 sqmm directions of the Engineer-In-charge of the work | m | 86.00 | 556.80 | |
| 235 | Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 70 sqmm directions of the Engineer-In-charge of the work | m | 35.00 | 270.00 | |
| 236 | Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 25 sqmm directions of the Engineer-In-charge of the work | m | 23.00 | 165.60 | |
| 237 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm directions of the Engineer-In-charge of the work | m | 98.00 | 31.00 | |

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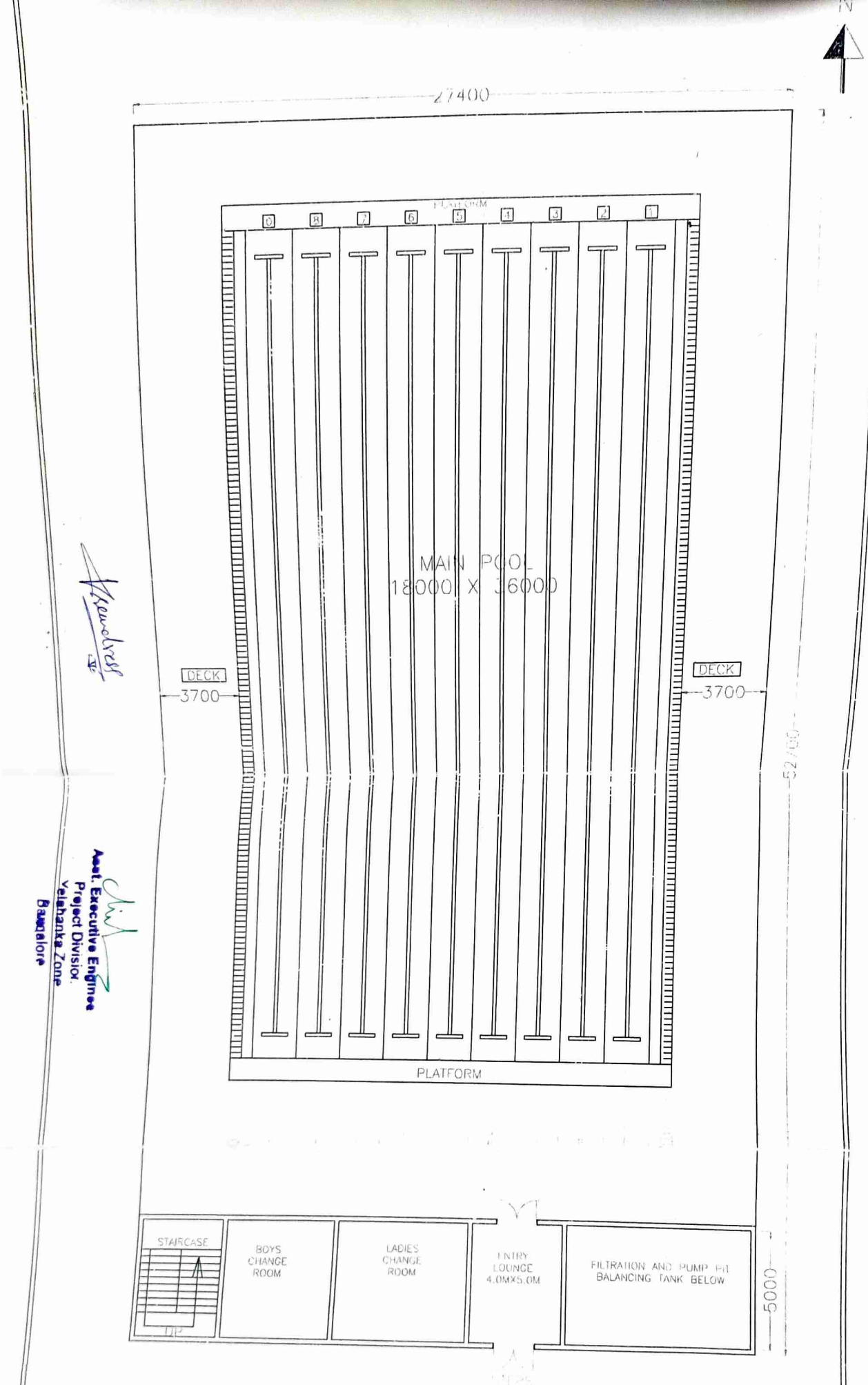
| 238 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 25 sqmm to 75 sqmm directions of the Engineer-In-charge of the work | m | 58.00 | 34.80 | |
| 239 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 95 sqmm to 150Sqmm directions of the Engineer-In-charge of the work | m | 86.00 | 42.40 | |
| 240 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 185sqmm to 240Sqmm directions of the Engineer-In-charge of the work | m | 53.00 | 44.50 | |
| 241 | END TERMINATION<br>HT CABLE ENDTERMINATION<br>Supplying and making 11KV (E) Extruded "X" linked for tubing & moulded & cross-linked components using Heat Shrink Stress Control tube having High Permittivity XLPE Terminations-OUTDOOR JOINTING KIT & confirming to the GTP. OUTDOOR<br>8.2.1) 3Cx95/120sqmm directions of the Engineer-In-charge of the work | Kit | 1.00 | 10108.00 | |
| 242 | Supplying and making 11KV (E) Extruded "X" linked for tubing & moulded & cross-linked components using Heat Shrink Stress Control tube having High Permittivity XLPE Terminations-INDOOR JOINTING KIT & confirming to the GTP. INDOOR<br>8.2.5) 3Cx95/120sqmm directions of the Engineer-In-charge of the work | Kit | 5.00 | 8373.00 | |
| 243 | LT CABLE END TERMINATION<br>Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)<br>25mm dia directions of the Engineer-In-charge of the work | Each | 5.00 | 86.00 | |
| 244 | Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)32mm dia directions of the Engineer-In-charge of the work | Each | 5.00 | 122.00 | |
| 245 | Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)<br>50mm dia directions of the Engineer-In-charge of the work | Each | 5.00 | 264.00 | |
| 246 | Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)<br>75mm dia directions of the Engineer-In-charge of the work | Each | 5.00 | 513.00 | |
| 247 | Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.<br>16 sqmm directions of the Engineer-In-charge of the work | Each | 40.00 | 11.31 | |
| 248 | Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following<br>sizes. 25 sqmm Long Barrel directions of the Engineer-In-charge of the work | Each | 20.00 | 20.59 | |
| 249 | Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following<br>sizes. 70 sqmm Long Barrel directions of the Engineer-In-charge of the work | Each | 10.00 | 98.28 | |
| 250 | Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following<br>sizes. 120 sqmm Long Barrel directions of the Engineer-In-charge of the work | Each | 10.00 | 196.56 | |
| 251 | Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following<br>sizes. 185 sqmm Long Barrel directions of the Engineer-In-charge of the work | Each | 10.00 | 338.52 | |
| 252 | CABLE TRAY<br>Supplying and fixing 2mm thick perforated cable tray with powder coated paint on existing MS angle support using necessary GI bolts/nuts and washer or welding as required.<br>7.19.1) 150x50mm directions of the Engineer-In-charge of the work | m | 50.00 | 440.00 | |
| 253 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level<br>and consolidating etc., complete. In soil (hard) directions of the Engineer-In-charge of the work | m | 20.00 | 106.00 | |
| 254 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level<br>and consolidating etc., complete.C.C. cutting directions of the Engineer-In-charge of the work | m | 10.00 | 212.00 | |

| | | | | | |
|---|---|---|---|---|---|
| | G. MISCELLANEOUS ITEMS | | | | |
| 255 | Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. 7.12.2) 50mm directions of the Engineer-In-charge of the work | m | 60.00 | 391.00 | |
| 256 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.1) 40x40x6mm directions of the Engineer-In-charge of the work | m | 10.00 | 263.00 | |
| 257 | Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part - II suitable for drawing underground cables.7.20.10) 160mm OD / 135mm ID directions of the Engineer-In-charge of the work | m | 10.00 | 580.00 | |
| 258 | Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work | m | 100.00 | 43.00 | |
| 259 | Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary25mm dia 2mm thick directions of the Engineer-In-charge of the work | m | 60.00 | 57.00 | |
| 260 | Concealed Conduit System Supplying heavy gauge PVC conduit pipemm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 32mm dia 2.5mm thick directions of the Engineer-In-charge of the work | m | 50.00 | 90.00 | |
| 261 | Supplying and installation of ABC Kgs capacity Fire Extinguishers for multipurpose (Solid, Liquid, Gas, Electrical) a) 5 Kgs directions of the Engineer-In-charge of the work | Each | 1.00 | 2085.00 | |
| 262 | Supplying and installation of Dry Chemical powder.Kg capacity Fire Extinguishers for multipurpose (DG, Electrical Panel) b) 5 Kgs directions of the Engineer-In-charge of the work | Each | 1.00 | 1800.00 | |
| 263 | Supplying and installation of Mechanical Foam-9ltrs capacity Fire Extinguishers for multipurpose (DG, Electrical Panel) directions of the Engineer-In-charge of the work | Each | 1.00 | 2600.00 | |
| 264 | Supplying and installing of CO2Kgs capacity Fire Extinguishers for multipurpose (Servers, Panels, Computers, etc.,) c) 4-5 Kgs directions of the Engineer-In-charge of the work directions of the Engineer-In-charge of the work | Each | 1.00 | 4810.00 | |
| 265 | Supplying of Four Bucket stand along with Buckets directions of the Engineer-In-charge of the work | Each | 2.00 | 1200.00 | |
| 266 | Supplying of Hand Gloves directions of the Engineer-In-charge of the work | Pair | 6.00 | 170.00 | |
| 267 | Supplying and installation of RUBBER MAT 1mt x 2mt-100mm thick directions of the Engineer-In-charge of the work | Each | 4.00 | 1105.00 | |

| | | | | | |
|---|---|---|---|---|---|
| 268 | Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.<br>7.4.10) 3.5 core 120 sqmm | m | 100.00 | 556.80 | |
| 269 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure<br>7.8.8) 95 sqmm to 150Sqmm | m | 100.00 | 42.40 | |
| 270 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)<br>7.6.2) In soil (hard) | m | 85.00 | 106.00 | |
| 271 | Supply and installation of Acoustic insulation using 50mm thick with 24Kg Density glass wool with 24G aluminum perforated sheet complete. | Sqm | 10.00 | 800.00 | |
| 272 | Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.65mm | m | 8.00 | 585.00 | |
| 273 | Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. 50mm | m | 4.00 | 391.00 | |
| 274 | B. EARTHING SYSTEM<br>Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. | Each | 8.00 | 4317.00 | |
| 275 | Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required<br>25x3mm Copper strip | m | 17.00 | 523.00 | |
| 276 | Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required 25x6mm Copper strip | m | 12.00 | 1018.00 | |
| 277 | Supplying and running of GI strips for grounding connections, using necessary fixing materials as required<br>25x3mm GI strip | m | 20.00 | 77.00 | |
| 278 | Supplying and running of GI strips for grounding connections, using necessary fixing materials as required 40x6mm GI strip | m | 20.00 | 166.00 | |
| 279 | Supplying and running GI/Copper conductor for grounding and laying with other wires in conduit system of wiring) using necessary suitable size clamps, nails, gutties/spacers etc. GI Wire<br>8 SWG | m | 35.00 | 19.50 | |

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

"DTS Approved"




Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

SITE AREA : 1443.98SQM

# GROUND FLOOR PLAN

| | | | | | |
|---|---|---|---|---|---|
| PROJECT | CONSTRUCTION OF SWIMMING POOL AT WARD NO.7, AMRUTHNAGAR, BYATARAYANAPURA ASSEMBLY CONSTITUENCY, BANGALORE | DESIGN | R.KARTHIK RECHAN | | |
| CLIENT | BBMP | CHECKED | R.RUDRAPRASAD | | |
| TITLE | GROUND FLOOR PLAN | DATE | 09-01-2018 | DRAWN | ANUSHA |
| | | DWG NO. | SP/AR-01 | SCALE: NTS | REV: R0 |

NOTES:-
1) Do Not Scale The Drawings
2) All Dimensions Are in Millimeters

RUDRAPRASAD CONSULTANTS
STRUCTURAL ENGINEERS, ARCHITECTS & PROJECT MANAGEMENT CONSULTANTS

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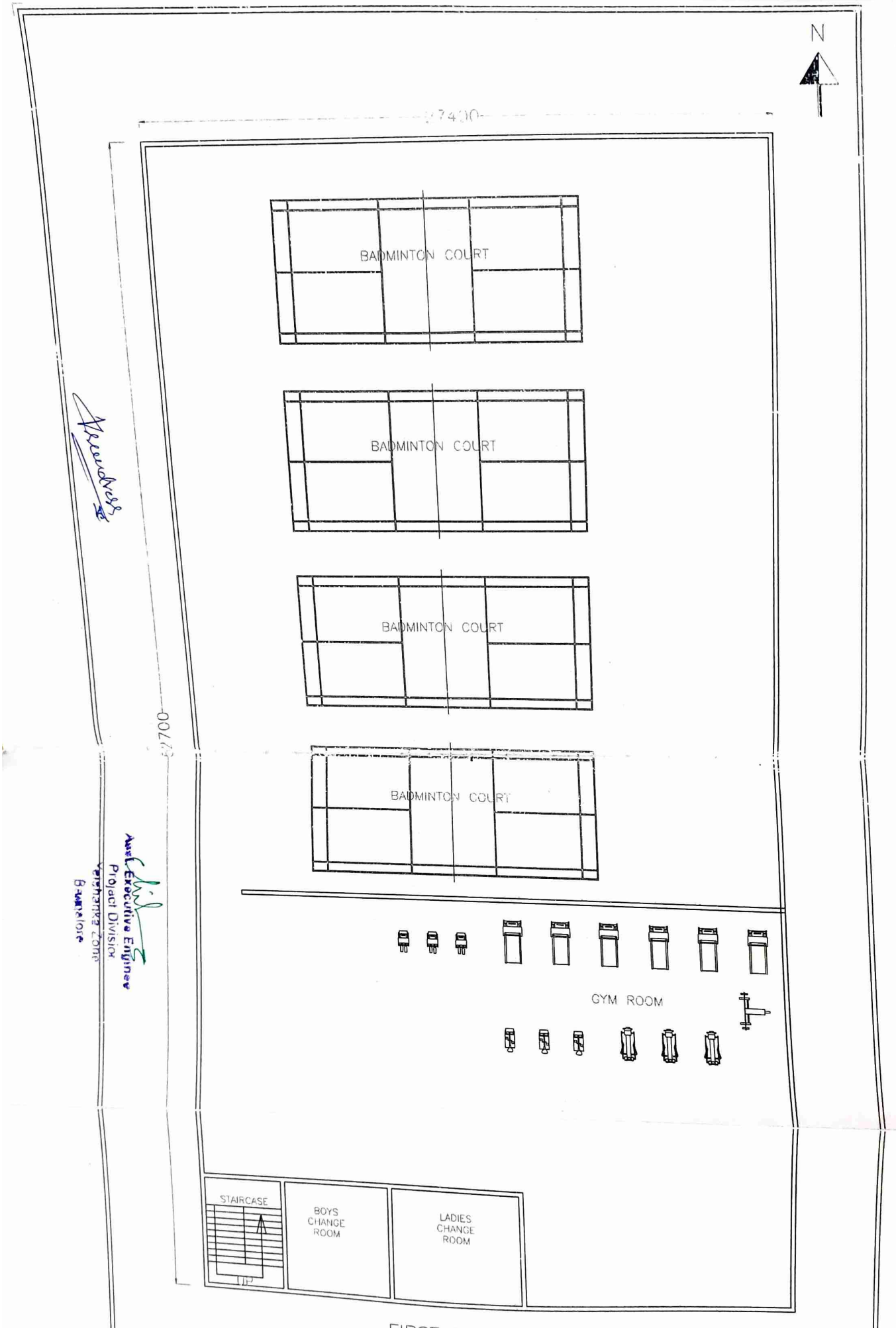


FIRST FLOOR PLAN

SITE AREA : 1443.98SQM

| | |
|---|---|
| PROJECT | CONSTRUCTION OF SWIMMING POOL AT WARD NO.7, AMRUTHNAGAR, BYATARAYANAPURA ASSEMBLY CONSTITUENCY, BANGALORE |
| CLIENT | BBMP |
| TITLE | FIRST FLOOR PLAN |

| | | | |
|---|---|---|---|
| DESIGN | R.KARTHIK RECHAN | | |
| CHECKED | R.RUDRAPRASAD | | |
| DATE | 09-01-2018 | DRAWN | ANUSHA |
| DWG NO. | SP/AR-02 | SCALE: NTS | REV: R0 |

NOTES:-
1) Do Not Scale The Drawings
2) All Dimensions Are In Millimeters

RUDRAPRASAD CONSULTANTS
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Executive Engineer
Project Division
Yelahanka Zone
Bangalore

(56)

# BRUHAT BANGALORE MAHANAGARA PALIKE

). BBMP/YNK/EE (Project)/TEND/23/2017-18

Office of the Executive Engineer,
Projects Division, Yelahanka Zone,
Byatarayanapura,
Bangalore-560 092
Dated: 18-12-2017

## NOTICE INVITING TENDER (NIT)
## SHORT TERM TENDER (TWO COVER SYSTEM)
## (Through GOK e-Procurement Portal Only)

1. The Executive Engineer (Project Division), Yelahanka ZoneBBMP invites tenders from eligible contractors registered in Bruhat Bangalore Mahanagara Palike / KPWD / CPWD / Railways / MES / National Highway or any state Govt. Organization for the construction of works detailed in the Table below. The tenderers may submit tenders for the works given in the table through e-procurement portal of the Government of Karnataka (viz http:/eproc.karnataka.gov.in). The tenderers are advised to note the minimum qualification criteria specified in clause-3 of the instructions to Tenderers to qualify for award of the contract as per standard **Tender Document –KW4**
2. Tender documents may be downloaded from the e-procurement portal of The Government of Karnataka.
3. Tenders must be accompanied by earnest money deposit specified for the work in the Table below. Earnest money deposit will have to be in any one of the forms as specified in the Tender document and shall have to valid for **90 days** beyond the validity of the tender. If the tenderer quotes less than the estimate cost, the Difference amount in form of DD payable in the favour of "The Commissioner, BBMP, Bangalore" should be furnished along with the technical document at the time of submitting bids.
4. Other details can be seen in the tender documents.

| Sl. No | Name of the projects | EMD (Rs.) | Amount put to Tender | Cost of Tender Form (in Rs.) |
|---|---|---|---|---|
| 1 | Constructions of Swimming pool at Amrutha Nagara Byatarayanapura Ward No.07 | 10,50,000/- | 700.00 Lakhs | Non-refundable as per eProcurement Portal |

*Time Schedule/Calendar of events:*

| | | | |
|---|---|---|---|
| 1 | Last date & time for Queries (only through online) | : | 04-01-2018 upto 4.00 PM |
| 2 | Date and time of per-bid meeting | : | 05-01-2018 At 4.00 PM |
| 3 | Last Date & Time for receipt of Tenders | : | 09-01-2018 upto 4:00 PM |
| 4 | Opening of Technical bid | : | On 10-01-2018 at 4:30 PM |
| 5 | Opening of Financial bid (If Possible) | : | On 12-01-2018 at 4:30 PM if possible |

**Eligibility criteria:**

Class-1 A/ Class-I contractors registered in Bruhat Bangalore Mahanagar Palike/ KPWD/CPWD/ Railways /MES/ any state or Central Govt. Organization having suitable Technical, Financial and managerial capabilities satisfying the following conditions are eligible to apply.

1. The Bidder should have executed and completed successfully within the stipulated period a single work of similar nature contract not less than 50% of tender amount in any of the financial year of **2012-13 to 2016-17**. In support of this, bidder should furnish a certificate duly certified by the competent authority along with Technical Bid. If the Bidder likes to quote for more than one work than the total work done value should be 50% of total intended bidding value.
2. The Tenderer should produce similar nature of Work Done Certificate not less than 50% of the Estimated amount.
3. Achieved in at least two financial years a minimum turnover not less than two times the amount put to tender and also considering total amount of tender for which he may be eligible. If the Bidder likes to quote for more than one work than the total work done value should be 2 times of total intended bidding value.
4. Present net worth should be two times the amount put to tender in support of this, the bidder should furnish certificate certified by the Chartered accountant. If the Bidder likes to quote for more than one work than the total work done value should be 2 times of total intended bidding value.
5. The Bidder should own the requisite Machinery / Equipment as per the tender documents.
6. The bidder shall furnish details of the project on hand.
7. The bids will be evaluated based on the bid capacity. Further a maximum of not more than Three works will be allotted to a single bidder also considering the projects on hand in conjunction with Para (2).

The Tender is a two cover Tender system consisting of

**TECHNICAL BID**

The Technical Bid should contain EMD, details of technical, financial and managerial capabilities to execute the work as per the requirements in Para 1 to 4 above.

**FINANCIAL BID**

The financial bid should contain only the price bid. For such of those contractors, whose technical bids do not satisfy the eligibility, their financial bids will not be opened and the tenders will summarily be rejected.

**TERMS AND CONDITIONS**

- No joint venture / Consortia are permissible.
- Tender forms will be issued only on presenting the pass book (Contractors registration Book) and entries will be made in the pass book at the time of issuing tender booklets. Non submission of the tender attracts action as per the conditions stipulated in the rules of registration of contractors.

- The successful Tenderer will have to execute an agreement with BBMP within seven days of receipt of intimation, failing which his tender will be rejected forfeiting the EMD. (55)
- Bruhat Bangalore Mahanagar Palike reserves the right to accept/reject any or all the tenders without assigning any reasons.
- Any other details regarding the works and other information can be obtained from the above office during office hours

**GENERAL INFORMATION:-**

1. Pre-bid meeting will be held in the office of the **Chief Engineer, Yelahanka Zone, Zonal Office** to clarify the issue and to answer questions on any matter that may be raised at that stage as stated in "Instructions to Bidders" of the bidding document.
2. Tenders must be submitted online through e-procurement portal and the opening of tenders will be as per the e-procurement portal guidelines.
3. Aspiring bidders/contractors who have not registered in e-procurement should register before participating through the website https:/eproc.karnataka.gov.in
4. Before submission of online bids bidders must ensure that scanned copies of all the necessary documents have been attached with bid.
5. All the required information required for Bids must be filled and submit online.
6. For details, registration and e-payment visit GOK e-procurement website **https:/eproc.karnataka.gov.in or contact e-procurement Helpdesk at 080-25501227 / 25501216.**
7. This tender notice can also be seen on the BBMP website www.bbmponline.org

**Sd/-**
Executive Engineer,
Project Division, Yelahanka Zone,
Bruhat Bangalore Mahanagara Palike.

***Copy Submitted to:-***

1. The Worshipful Mayor/Deputy Mayor for kind information.
2. The Commissioner for kind information.
3. The Special Commissioner (Project) for kind information.
4. Joint Secretary UD and Tender Bulletin Officer, for kind information and request to publish the state tender bulletin.
5. Deputy Commissioner, Bangalore Urban District, Tender Bulletin officer for kind information and request to publish in the Tender Bulletin.
6. The Engineer-In-Chief for kind information.
7. The Joint Commissioner (Yelahanka Zone) for kind information.
8. The Chief Engineer (Yelahanka Zone) for kind information.
9. AO (Projects) for information to verify the contractors Pass Book while issuing of tender forms.
10. Public Relation Officer BBMP for information and to publish in two leading Newspapers in Kannada and English.

Executive Engineer, 18/12
Project Division, Yelahanka Zone,
Bruhat Bangalore Mahanagara Palike.

**Bruhat Bangalore Mahanagara Palike**

TENDERS FOR THE WORK OF

**Constructions of Swimming pool at Amrutha Nagara Byatarayanapura Ward No.07**

TENDER REFERENCE : BBMP/YNK/EE (Project)/TEND/23/2017-18, Dt:18/12/2017

| | |
|---|---|
| DOWNLOADING OF TENDER DOCUMENT | : |
| LAST DATE AND TIME FOR RECEIPT OF TENDER | : 09-01-2018, before 16.00 Hours |
| TIME AND DATE OF OPENING OF TECHNICAL BID OF TENDER | : 10-01-2018 at 16.30 Hours |
| PLACE OF OPENING OF COVER ONE OF TENDER | : Office of the Executive Engineer Projects division–Yelahanka Zone 2nd Floor, Yelahanka Zonal Office B.B.M.P,Bangalore – 560 092. |
| TIME AND DATE OF OPENING OF FINANCIAL BID OF TENDER | : 12-01-2018 at 16.30 Hours |
| PLACE OF OPENING OF FINANCIAL BID OF TENDERS | : Office of the Executive Engineer Projects division–Yelahanka Zone 2nd Floor, Yelahanka Zonal Office B.B.M.P,Bangalore – 560 092. |
| ADDRESS FOR COMMUNICATION | : Office of the Executive Engineer Projects division–Yelahanka Zone 2nd Floor, Yelahanka Zonal Osffice B.B.M.P,Bangalore – 560 092. E-mail: eepryz@gmail.com<br>Ph. No. 9480685236 |

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Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 9

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92



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# BRUHAT BANGALORE MAHANAGARA PALIKE

No. BBMP/YNK/EE (Project)/TEND/23/2017-18

Office of the Executive Engineer,
Projects Division, Yelahanka Zone,
Byatarayanapura,
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Dated: 18-12-2017

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Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



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Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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8. The Chief Engineer (Yelahanka Zone) for kind information.
9. AO (Projects) for information to verify the contractors Pass Book while issuing of tender forms.
10. Public Relation Officer BBMP for information and to publish in two leading Newspapers in Kannada and English.

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Bruhat Bangalore Mahanagara Palike.

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# SECTION 2: INSTRUCTIONS TO TENDERERS (ITT)

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# A. General

## 1. Scope of Tender

1.1 The **Executive Engineer, Project Division - Yelahanka Zone** (Referred to as Employer in these documents) invites tenders following Two Cover tender procedure, from eligible Tenderers, for the construction of works (as defined in these documents and referred to as "the works") detailed in the Table given in the Invitation for Tenders (IFT). The Tenderers may submit tenders for any or all of the works detailed in the table given in IFT.

## 2. Eligible Tenderers

2.1 Tenderers shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government of Karnataka / BBMP

2.2 **Tenders from Joint ventures are not acceptable.**

## 3. Qualification of the Tenderer:

3.1 All Tenderers shall provide the requested information accurately and in sufficient detail in Section 3: Qualification information.

3.2 To qualify for award of this contract, each Tenderer in its name should have in the last five years i.e. 2012-**2013 to 2016-17**

(a) achieved in at least two financial years a minimum financial turnover (in all classes of civil engineering construction works only) **of Rs.1400.00 Lakhs**

**(b) mandating satisfactory completion as a prime contractor for at least one similar work to an extent of 50% of the cost of the work i.e (Rs.350.00 Lakhs)**

(c) executed in any one year, the following minimum quantities of work:[1]

| Sl. No. | Items | Unit | Quantity |
|---|---|---|---|
| 1. | M25 Grade Concrete | Cum | 705.00 |
| 2 | TMT Steel | MT | 78.00 |
| 3 | Centering and SHuttering | Sqm | 2265.00 |

(d) Deleted

(e) Deleted

3.3 Each Tenderer should further demonstrate:

(a) Availability by owning at least 50% of the required / specified key and critical equipment for this work and the remaining 50% can be deployed on lease / hire basis for all works provided the relevant documents (commitment agreements etc.) for availability for this work are furnished.( As per list provided in contract Data)

(b) liquid assets and /or availability of credit facilities of not less than **Rs 200.00 Lakhs** (Credit lines/ letter of credit/ certificates from banks for meeting the fund requirement etc.

3.4 To qualify for a package of contracts made up of this and other contracts for which tenders are invited in this IFT, the Tenderer must demonstrate having experience and resources to meet the aggregate of the qualifying criteria for the individual contracts.

3.5 Sub-contractors' experience and resources shall not be taken into account in determining the Tenderer's compliance with the qualifying criteria except to the extent stated in 3.2 (d) and (e) above.



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3.6 Tenderers who meet the above specified minimum qualifying criteria, will only be qualified, if their available tender capacity is more than the total tender value. The available tender capacity will be calculated as under:

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where **Assessed available tender capacity = (A*N*1.5 - B)**

A = Maximum value of civil engineering works executed in any one year during the last five years **(updated to 2016-17 Price Level)** taking into account the completed as well as works in progress.
N = Number of years prescribed for completion of the works for which tenders are invited.
B = Value, at **2016-17 Price Level on 10% Weightage per annum**, of Existing Commitments and On Going Works to be completed during the next **12 months**.

***Note:*** *The statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Employer in charge, not below the rank of an Executive Engineer or equivalent.*

3.7 Even though the Tenderers meet the above criteria, they are subject to be disqualified if they have:

- made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.; and/or
- participated in the previous Tender for the same work and had quoted unreasonably high tender prices and could not furnish rational justification.

**4. One Tender per Tenderer:**

4.1 Each tenderer shall submit only one tender for one package. A tenderer who submits or participates in more than one Tender (other than as a sub-contractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the Tenderer's participation to be disqualified.

**5. Cost of Tendering:**

5.1 The tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible and liable for those costs.

**6. Site visit:**

6.1 The Tenderer at his own responsibility and risk is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Tender and entering into a contract for construction of the Works. The cost of visiting the Site shall be at the Tenderer's own expense.

## B. Tender documents

**7. Content of Tender documents**

7.1 The set of tender documents shall have all the Sections given in Page 2:
7.2 Both the sets should be completed and returned with the tender.

**8. Clarification of Tender Documents**

8.1 A prospective tenderer requiring any clarification of the tender documents may notify the Employer in writing or by cable (hereinafter "cable" includes telex and facsimile) at the Employer's address indicated in the invitation to tender. The Employer will respond to any request for clarification which he receives earlier than 15 days prior to the deadline for submission of tenders. Copies of the Employer's response will be forwarded to all purchasers of the tender documents, including a description of the enquiry but without identifying its source.

8.2 **Pre-tender meeting:**



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8.2.1 The tenderer or his authorized representative is invited to attend a **pre-bid meeting** which will take place in the office of the Executive Engineer (Project Division), Yelahanka zonal office on **05/01/2018 at 16.00 Hours**.

8.2.2 The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage

8.2.3 The tenderer is requested to submit any questions in writing or by mail to reach the Employer not later than **04/01/2018 at 16.00**

8.2.4 Minutes of the meeting, including the text of the questions raised (without identifying the source of enquiry) and the responses given will be transmitted without delay to all purchasers of the tender documents. Any modification of the tender documents listed in Sub-Clause 7.1 which may become necessary as a result of the pre-tender meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 9 and not through the minutes of the pre-tender meeting.

8.2.5 Non-attendance at the pre-tender meeting will not be a cause for disqualification of a tenderer.

**9. Amendment of Tender documents**

9.1 Before the deadline for submission of tenders, the Employer may modify the tender documents by issuing addenda.

9.2 Any addendum thus issued shall be part of the tender documents and shall be communicated in writing or by cable to all the purchasers of the tender documents.

9.3 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend as necessary the deadline for submission of tenders, in accordance with Sub-Clause 16.2 below.

## C. Preparation of Tenders

**10. Documents comprising the Tender**

10.1 The tender submitted by the Tenderer shall be in two covers and shall contain the documents as follows::

**10.1.1 Technical Bid:**
(a) Earnest Money Deposit;
(b)Qualification Information as per formats given in Section 3;

**10.1.2 Financial Bid:**
(a) The Tender (in the format indicated in Section 4)
(b) Priced Bill of Quantities (Section 9);
and any other materials required to be completed and submitted by Tenderers in accordance with these instructions. The documents listed under Sections 3, 4, 6 and 9 shall be filled in without exception.

10.2 Tenderers submitting tenders together with other contracts stated in the IFT to form a package will so indicate in the tender together with any discounts offered for the award of more than one contract.

**11. Tender prices**

11.1 The contract shall be for the whole works as described in Sub-Clause 1.1, based on the priced Bill of Quantities submitted by the Tenderer.

11.2 The Tenderer shall fill in rates and prices and line item total (both in figures and words) for all items of the Works described in the Bill of Quantities along with total tender price (both in figures and words). **Items for which no rate or price is entered by the Tenderer will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities**. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.

11.3 All duties, taxes, and other levies payable by the contractor under the contract, or for any other cause, shall be included in the rates, prices and total Tender Price submitted by the Tenderer.



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11.4 The rates and prices quoted by the Tenderer shall be subject to adjustment during the performance of the Contract in accordance with the provisions of Clause of the Conditions of Contract

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**12. Tender validity**

12.1 Tenders shall remain valid for a period not less than 90 days after the deadline date for tender submission specified in Clause 16. A tender valid for a shorter period shall be rejected by the Employer as non-responsive.

12.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the Tenderers may extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing or by cable. A Tenderer may refuse the request without forfeiting his earnest money deposit. A Tenderer agreeing to the request will not be required or permitted to modify his tender, but will be required to extend the validity of his earnest money deposit for a period of the extension, and in compliance with Clause 13 in all respects.

**13. Earnest money deposit**

13.1 The Tenderer shall furnish, as part of his tender, earnest money deposit (EMD) at the following rates
a) upto Rs.20 Lakhs - 2.5%
b) Rs. 20 Lakhs and above upto Rs. 1 crore – 2% subject to a minimum of Rs. 50,000/-
c) Rs. 1 crore and above upto Rs. 10 crores – 1.5% subject to a minimum of Rs. 2,00,000/-
d) Rs. 10 crores and above – 1% subject to a minimum of Rs.15,00,000/-. This earnest money deposit shall be in favour of The Commissioner, BBMP and may be in the form of Banker's cheque/ Demand draft/Pay Order, in favour of The Commissioner, BBMP payable at Bangalore or specified Small Savings Instruments pledged to

13.2 Instruments having fixed validity issued as earnest money deposit for the tender shall be valid for 45 days **beyond** the validity of the tender.

13.3 Any tender not accompanied by an acceptable earnest money deposit and not secured as indicated in Sub-Clauses 13.1 and 13.2 above shall be rejected by the Employer as non-responsive.

13.4 The earnest money deposit of unsuccessful Tenderers will be returned within 30 days of the end of the tender validity period specified in Sub-Clause 12.1.

13.5 The earnest money deposit of the successful Tenderer will be discharged when the Tenderer has signed the Agreement and furnished the required Performance Security.

13.6 The earnest money deposit may be forfeited:
(a) if the Tenderer withdraws the Tender after tender opening during the period of tender validity;
(b) if the Tenderer does not accept the correction of the Tender Price, pursuant to Clause 24; or
(c) in the case of a successful Tenderer, if the Tenderer fails within the specified time limit to
(i) sign the Agreement; or
(ii) furnish the required Security deposit

**14. Format and signing of Tender**

14.1 Deleted
14.2 Deleted
14.3 Deleted

## D. Submission of Tenders

**15. Sealing and marking of tenders**

15.1 As per e-procurement portal procedures
15.2 (a) Deleted

(b) Deleted
15.3 Deleted
15.4 Deleted

**Note:-**

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1. The Tenderer shall access Tender Documents, fill them and submit the Completed Tender Document as stated in Clause 10 through Website of e – Procurement itself (www.eproc.karnataka.gov.in). The Signed, Sealed and Scanned Copy of all the Documents as stated in Clause 10 shall be attached to the e – Tender Document, failing which the Bid will not be considered. It is the Responsibility of the Tenderer to submit all the Documents pertaining to Eligibility Criteria / Qualification Information with due diligence. All the Pages of the Document shall be serially numbered with an Index for ready reference.
2. No Physical Documents shall be considered. However, all the participating Tenderers shall produce all the Original Documents for Verification whenever asked by the Employer.

**16. Deadline for submission of the Tenders**

16.1 Tenders must be uploaded through e-portal no later than **16.00 hours on 09/01/2018** In the event of the specified date for the submission of tenders being declared a holiday for the Employer, the tenders will be received up to the appointed time on the next working day.

16.2 The Employer may extend the deadline for submission of tenders by issuing an amendment in accordance with Clause 9, in which case all rights and obligations of the Employer and the Tenderers previously subject to the original deadline will then be subject to the new deadline.

**17. Late Tenders**

17.1 Any Tender received by the Employer after the deadline prescribed in Clause 16 will be returned unopened to the Tenderer.

**18. Modification and Withdrawal of Tenders**

18.1 Tenderers may modify contents of First or Second Covers separately for each Cover or withdraw their Tenders by giving notice in writing before the deadline prescribed in Clause 16.

18.2 Deleted.

18.3 No Tender may be modified after the deadline for submission of Tenders.

18.4 Withdrawal or modification of a Tender between the deadline for submission of Tenders and the expiration of the original period of Tender validity specified in Clause 12.1 above or as extended pursuant to Clause 12.2 may result in the forfeiture of the earnest money deposit pursuant to Clause 13.

1 8.5 Tenderers may only offer discounts to, or otherwise modify the prices of their Tenders by submitting Tender modifications in accordance with this clause, or included in the original Tender submission.

## E. Tender opening and evaluation

**19. Opening of Technical bid of all Tenders and evaluation to determine qualified Tenderers:**

19.1 The Employer will open the **Technical bid** (through e-Proc) of all the Tenders received (except those received late or withdrawn), including modifications for First Cover made pursuant to Clause 18, in the presence of the Tenderers or their representatives who choose to attend at **16.30 hours on 10/01/2018** and the place specified earlier. In the event of the specified date of Tender opening being declared a holiday for the Employer, the Tenders will be opened at the appointed time and location on the next working day.

19.2 Deleted.

19.3 The Tenderes names, the presence or absence of earnest money deposit (amount, format and validity), the submission of qualification information and such other information as the Employer may consider appropriate will be announced by the Employer at the opening. Late and withdrawn Tenders will be returned unopened to tenders.

19.4 The Employer shall prepare minutes of the Tender opening, including the information disclosed to those present in accordance with Sub-Clause 19.3.

19.5 Deleted[2]

[2] Refer GOK circular No. PWD 1359 SO/FC 2001 (P-2) dated 30th June 2003.



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19.6 The Employer will evaluate and determine whether each tender (a) meets the eligibility criteria defined in ITT Clause 2; (b) is accompanied by the required earnest money deposit as per stipulations in ITT Clause 9 and (c) meets the minimum qualification criteria stipulated in ITT Clause 3. The Employer will draw out a list of qualified Tenderers.

**20. Opening of Financial Bid of qualified Tenderers and evaluation:**

20.1 The Employer will inform all the Qualified Tenderers the time, date and venue fixed for the opening of the Second Cover containing the priced Tenders. The Employer will open the Second Covers of Qualified Tenderers at the appointed time and date in the presence of the Tenders or their representatives who choose to attend. In the event of the specified date of Second Cover opening being declared a holiday for the Employer, the Second Covers will be opened at the appointed time and location on the next working day.

20.2 Deleted.

20.3 The Tenderers' names, the Tender prices, the total amount of each Tender, any discounts, Tender modifications and withdrawals, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening. No Tender shall be rejected at Tender opening.

20.4 The Employer shall prepare minutes of the Second Cover Tender opening, including the information disclosed to those present in accordance with Sub-Clause 20.3.

**21. Process to be confidential**

21.1 Information relating to the examination, clarification, evaluation, and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence the Employer's processing of Tenders or award decisions may result in the rejection of his Tender.

**22 Clarification of Tenders**

22.1 To assist in the examination, evaluation, and comparison of Tenders, the Employer may, at his discretion, ask any Tenderer for clarification of his Tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the Tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Tenders in accordance with Clause 24.

22.2 Subject to sub-clause 22.1, no Tenderer shall contact the Employer on any matter relating to its Tender from the time of the Tender opening to the time the contract is awarded. If the Tenderer wishes to bring additional information to the notice of the Employer, it should do so in writing.

22.3 Any effort by the Tenderer to influence the Employer in the Employer's Tender evaluation, Tender comparison or contract award decisions may result in the rejection of the Tenderers' Tender.

**23. Examination of Tenders and determination of responsiveness**

23.1 Prior to the detailed evaluation of Tenders, the Employer will determine whether each Tender; (a) has been properly signed; and; (b) is substantially responsive to the requirements of the Tender documents.

23.2 A substantially responsive Tender is one which conforms to all the terms, conditions, and specifications of the Tender documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works; (b) which limits in any substantial way, inconsistent with the Tender documents, the Employer's rights or the Tenderer's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other Tenderers presenting substantially responsive Tenders.

23.3 If a Tender is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

**24. Correction of errors**

24.1 Tenders determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:



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(a) where there is a discrepancy between the rates in figures and in words, the lower of the two will govern[3]; and

(b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.

24.2 The amount stated in the Tender will be adjusted by the Employer in accordance with the above procedure for the correction of errors and, with the concurrence of the Tenderer, shall be considered as binding upon the Tenderer. If the Tenderer does not accept the corrected amount the Tender will be rejected, and the earnest money deposit may be forfeited in accordance with Sub-Clause 13.6 (b).

**25. Evaluation and comparison of Tenders**

25.1 The Employer will evaluate and compare only the Tenders determined to be substantially responsive in accordance with Clause 23.

25.2 In evaluating the Tenders, the Employer will determine for each Tender the evaluated Tender Price by adjusting the Tender Price as follows:

(a) making any correction for errors pursuant to Clause 24; and

(b) making appropriate adjustments to reflect discounts or other price modifications offered in accordance with Sub Clause 18.5.

25.3 The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, and alternative offers and other factors which are in excess of the requirements of the Tender documents or otherwise result in unsolicited benefits for the Employer shall not be taken into account in Tender evaluation.

25.4 The estimated effect of the price adjustment conditions under Clause 41 of the Conditions of Contract, during the implementation of the Contract, will not be taken into account in tender Evaluation

25.5 If the tender of the successful tenderer is seriously unbalanced in relation to the Employer's estimate of the cost of the work to be performed under the contract, the Employer may require the Tenderer to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 29 be increased at the expense of the successful Tenderer to a level sufficient to protect the Employer against financial loss in the event of default of the successful under the contract

## F. Award of Contract

**26. Award criteria**

26.1 Subject to Clause 27, the Employer will award the Contract to the Tenderer whose Tender has been determined to be substantially responsive to the Tender documents and who has offered the lowest evaluated Tender Price, provided that such Tenderer has been determined to be (a) eligible in accordance with the provisions of Clause 2, and (b) qualified in accordance with the provisions of Clause 3.

**27. Employer's right to accept any Tender and to reject any or all Tenders**

27.1 Notwithstanding Clause 26, the Employer reserves the right to accept or reject any Tender, and to cancel the Tender process and reject all Tenders, at any time prior to the award of Contract, without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds for the Employer's action.

**28. Notification of award and signing of Agreement**

28.1 The Tenderer whose Tender has been accepted will be notified of the award by the Employer prior to expiration of the Tender validity period by cable, telex, e-mail or facsimile confirmed by registered letter. This letter (hereinafter and in the *Conditions of Contract* called the "Letter of Acceptance") will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

28.2 The notification of award will constitute the formation of the Contract, subject only to the furnishing of Security deposit in accordance with the provisions of Clause 29.

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[3] Clause 25(2) of Chapter VI of KTPP Rules 2000 states that "in case of discrepancy between the price quoted in words and figures, the lower of the two shall be considered".



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28.3 The Agreement will incorporate all agreements between the Employer and the successful Tenderer. It will be kept ready for signature of the successful Tenderer in the office of Employer within 30 days following the notification of award along with the Letter of Acceptance. Within 20 days of receipt, the successful Tenderer will sign the Agreement and deliver it to the Employer.

28.4 Upon the furnishing by the successful Tenderer of the Performance Security, the Employer will promptly notify the other Tenderers that their Tenders have been unsuccessful.

**29. Security deposit**

29.1 Within 20 days of receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Security deposit in any of the forms given below for an amount equivalent to 5% of the Contract price plus additional security for unbalanced tenders in accordance with Clause 25.5 of ITT and Clause 44 of the Conditions of Contract for all works. :

- Banker's cheque/Demand draft,/Pay Order in favour of Commissioner BBMP payable at Bangalore or
- A Bank Guarantee in the form given in Section 10; or
- Special Small savings instruments pledged to Commissioner, BBMP / Executive Engineer – Project Division, Yelahanka Zone BBMP
-

29.2 If the security deposit is provided by the successful Tenderer in the form of a Bank Guarantee, it shall be issued either by a Nationalized/Scheduled bank.

29.3 The security deposit if furnished in cash or demand draft can, if requested, be converted to interest bearing securities at the cost of the contractor.

29.4 Failure of the successful Tenderer to comply with the requirements of Sub-Clause 29.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Earnest money deposit.

29.4 Failure of the successful Tenderer to comply with the requirements of Sub-Clause 29.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Earnest money deposit.

**30 Advance Payment and Security:**

30.1 Deleted

**31. Corrupt or Fraudulent practices**

31.1 The BBMP requires that the Tenderers/Suppliers/Contractors, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, BBMP :

(a) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(b) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a BBMP contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a BBMP contract.

31.2 Furthermore, Tenderers shall be aware of the provision stated in sub-clause 50.2 of the Conditions of Contract.

## SECTION 3: QUALIFICATION INFORMATION

The information to be filled in by the Tenderer hereunder will be used for purposes of computing Tender capacity as provided for in Clause 3 of the Instructions to Tenderers. This information will not be incorporated in the Contract.

| | | |
|---|---|---|
| 1.1 | Constitution or legal status of Tenderer | [Attach copy] |
| | Place of Registration | (Attach Copy) |
| | Principal place of business: | |
| 1.2 | Total value of civil engineering construction | 2012-13 ..... |



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works executed and payments received in the last five years (in Rs. Lakhs) Attach Certificate from Chartered Accountant

2013-14 .....
2014-15.....
2015-16 .....
2016-17.....

1.3 Work performed as Prime Contractor (in the same name) on works of similar nature over during the five years specified in 1.2 above.

| Project Name | Name of Employer | Descrip-tion of Work | Contract Number | Value of Contract Rs. Lakhs | Date of issue of work order | Specified period of completion | Actual date of Actual date of | Remarks explaining reasons for delay in completion of work |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | |

1.4 Quantities of work executed as prime contractor (in the same name) during the last five years specified in 1.2 above:

| Year | Name of Work | Name of Employer | Quantity of work performed (cum)[4] | | | Remarks (Indicate contract reference) |
|---|---|---|---|---|---|---|
| | | | Cement Concrete | Masonry | Earthworks | |
| 2012-13 | | | | | | |
| 2013-14 | | | | | | |
| 2014-15 | | | | | | |
| 2015-16 | | | | | | |
| 2016-17 | | | | | | |

1.5 Information on works for which Tenders have been submitted and works which are yet to be completed as on the date of this Tender.

(A) Existing commitments and on-going works:

| Description of Work | Place & State | Contract No. & Date | Name And Address of Employer | Value of Contract (Rs. lakhs) | Stipulated period of completion | Value of works remaining to be completed (Rs. lakhs) Attach Certificates from Engineers – in- Charge | Anticipated date of completion |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | |

(B) Works for which Tenders already submitted:

| Description of Work | Place & State | Name and Address of Employer | Estimated value of works (Rs. lakhs) | Stipulated period of completion | Date when decision is expected | Remarks if any |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | |

1.6. The following items of equipment are considered essential for successfully carrying out the works. The Tenderer should furnish all the information listed below.

| Item of Equipment | Requirement[5] | | Owned | Owned and available | | |
|---|---|---|---|---|---|---|
| | No. | Capacity | | Number/ Capacity | Age/ condition | Remarks |

1.7 Reports on the financial standing of the tenderer, such as profit and loss statements and auditor's reports for the last five years;

1.8 Qualification and experience of the key technical and management personnel in permanent employment with the tenderer and those that are proposed to be deployed on this contract, if awarded.

[4] Items of work for which data is requested should tally with that specified in ITT Clause 3
[5] The item of equipment, required number and capacity should match with those specified in ITT Clause 3.3 (a)



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1.9. Name, address, and telephone, telex, and fax numbers of the Tenderers' bankers who may provide references if contacted by the Employer.

1.10 Evidence of access to financial resources to meet the qualification requirement specified in ITT Clause3.3 (b): Cash in hand, Letter of Credit etc. List them below and attach certificate from the Banker in the suggested format as under:

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**BANKER'S CERTIFICATE**

This is to certify that M/s. ..... is a reputed company with a good financial standing. If the contract for this work, namely ..... (*name of the work)* is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. ..... to meet the working capital requirements for executing the above contract

Sd/-
Name of the Bank,
Senior BankManger
Address:.....

1.11 Proposals for subcontracting components of works amounting to more than 20% of the contract price .

| Item of Work | Value of Sub-Contract | Identified Sub-Contractor (Name and address) | Experience of similar work (Attach certificates from the respective Employers.) |
|---|---|---|---|
| 1 | 2 | 3 | 4 |

1.12 Information on litigations in which the Tenderer is involved:

| Other Party (ies) | Employer | Details of dispute | Amount involved | Remarks showing present status |
|---|---|---|---|---|
| | | | | |

1.13 The proposed methodology and program of construction, backed with equipment planning and deployment, duly supported with broad calculations and quality control procedures proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications within the stipulated period of completion as per milestones.



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1.9. Name, address, and telephone, telex, and fax numbers of the Tenderers' bankers who may provide references if contacted by the Employer.

1.10 Evidence of access to financial resources to meet the qualification requirement specified in ITT Clause 33 (b): Cash in hand, Letter of Credit etc. List them below and attach certificate from the Banker in the suggested format as under:

**BANKER'S CERTIFICATE**

This is to certify that M/s. ..... is a reputed company with a good financial standing. If the contract for this work, namely ..... *(name of the work)* is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. ..... to meet the working capital requirements for executing the above contract

Sd/-
Name of the Bank,
Senior BankManger
Address:.....

1.11 **Proposals for subcontracting components of works amounting to more than 20% of the contract price .**

| Item of Work | Value of Sub-Contract | Identified Sub-Contractor (Name and address) | Experience of similar work (Attach certificates from the respective Employers.) |
|---|---|---|---|
| 1 | 2 | 3 | 4 |

1.12 Information on litigations in which the Tenderer is involved:

| Other Party (ies) | Employer | Details of dispute | Amount involved | Remarks showing present status |
|---|---|---|---|---|
| | | | | |

1.13 The proposed methodology and program of construction, backed with equipment planning and deployment, duly supported with broad calculations and quality control procedures proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications within the stipulated period of completion as per milestones.



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## SECTION 4: FORMS OF TENDER, LETTER OF ACEPTANCE, NOTICE TO PROCEED WITH THE WORK AND AGREEMENT FORM

### Form of Tender

Description of the Works Constructions of Swimming pool at Amrutha Nagara Byatarayanapura Ward No.07.....

.....

(To be filled in by the Employer before issue of the Tender document)

**Tender**

To : .....

Address .....

.....

(To be filled in by the Employer before issue of the Tender document )

GENTLEMEN,

We offer to execute the Works described above in accordance with the Conditions of Contract accompanying this Tender for the Contract Price of ..... *[in figures]* (.....) *[in letters]*.[6]

This Tender and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any Tender you receive.

The advance payment required is Rs.....

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

We hereby confirm that this Tender complies with the Tender validity and Earnest money deposit required by the Tender documents.

We attach herewith our current income-tax clearance certificate.

Yours faithfully,

Authorized Signature:

Name & Title of Signatory: _____

Name of Tenderer _____

Address: _____

_____

[6] To be filled in by the Tenderer, together with his particulars and date of submission at the bottom of the Form of Tender



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...being given and

## Letter of Acceptance

(letterhead paper of the Employer)

.....[date]

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To:

.....

.....[name and address of the Contractor]

Dear Sirs,

This is to notify you that your Tender dated ..... for execution of the ..... *[name of the contract and identification number, as given in the Instructions to Tenderers]* for the Contract Price of Rupees ..... (.....) [amount in words and figures], as corrected and modified in accordance with the Instructions to Tenderers is hereby accepted by our Agency.

You are hereby requested to furnish Security deposit plus additional security for unbalanced tenders in terms of Clause 25.5 of ITT, in the form detailed in Clause 29.1 of ITT for an amount of Rs..... within 20 days of the receipt of this letter of acceptance valid up to 30 days from the date of expiry of Defects Liability Period i.e. up to ..... and sign the contract, failing which action as stated in Para 29.4 of ITT will be taken.

Yours faithfully,

Authorized Signature

Name and Title of Signatory

Name of Agency

---

## Issue of Notice to proceed with the work

(letterhead of the Employer)

.....(date)

To

.....

.....

..... (name and address of the Contractor)

Dear Sirs:

Pursuant to your furnishing the requisite security deposit as stipulated in ITT Clause 29.1 and signing of the contract agreement for the construction of ..... (name of the work) a Tender Price of Rs..... , you are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Yours faithfully,

(Signature, name and title of signatory authorized to sign on behalf of Employer)

## Agreement Form

**Agreement**

This agreement, made the .....day of .....20....., between.....



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.....[name and address of Employer]
(hereinafter called "the Employer") of the one part and .....
.....[name
address of contractor] (hereinafter called "the Contractor") of the other part.

Whereas the Employer is desirous that the Contractor execute .....
.....
.....[ name and identification number of Contract] (hereinafter called "the Works") and the Employer has accepted the Tender by the Contractor for the execution and completion of such Works and the remedying any defects therein at a contract price of Rupees.....

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
   - i) Letter of Acceptance;
   - ii) Notice to proceed with the works;
   - iii) Contractor's Tender;
   - iv) Contract Data;
   - v) Conditions of contract (including Special Conditions of Contract);
   - vi) Specifications;
   - vii) Drawings;
   - viii) Bill of Quantities; and
   - ix) Any other document listed in the Contract Data as forming part of the contract.

In witness whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The Common Seal of .....
.....
was hereunto affixed in the presence of:
Signed, Sealed and Delivered by the said
.....
.....
in the presence of:
Binding Signature of Employer

.....

## SECTION 5: CONDITIONS OF CONTRACT

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**The Contractor's Tender** is the completed Tender document submitted by the Contractor to the
**The Contract price** is the price stated in the Letter of Acceptance and thereafter as adjusted
with the provisions of the Contract.
**Days** are calendar days; **months** are calendar months.
A **Defect** is any part of the Works not completed in accordance with the Contract.
The **Defects liability period** is the period named in the Contract Data and calculated from the
Date.
The **Employer** is the party who will employ the Contractor to carry out the Works.
**Equipment** is the Contractor's machinery and vehicles brought temporarily to the Site to
Works.
The **Initial Contract price** is the Contract Price listed in the Employer's Letter of Acceptance.
The **Intended Completion Date** is the date on which it is intended that the Contractor shall
Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion
be revised only by the Employer by issuing an extension of time.
**Materials** are all supplies, including consumables, used by the contractor for incorporation in the
**Plant** is any integral part of the Works which is to have a mechanical, electrical, electronic or
biological function.
The **Site** is the area defined as such in the Contract Data.
**Specification** means the Specification of the Works included in the Contract and any
addition made or approved by the Employer.
The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence
of the works. It does not necessarily coincide with any of the Site Possession Dates.
A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a
of the work in the Contract which includes work on the Site.
A **Variation** is an instruction given by the Employer which varies the Works.
The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the
Employer, as defined in the Contract Data.

## 2. Interpretation

2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Employer will provide instructions clarifying queries about the Conditions of Contract.

2.2 The documents forming the Contract shall be interpreted in the following order of priority:

(1) Agreement
(2) Letter of Acceptance, notice to proceed with the works
(3) Contractor's Tender
(4) Contract Data
(5) Conditions of Contract
(6) Specifications
(7) Drawings
(8) Bill of quantities and
(9) any other document listed in the Contract Data as forming part of the Contract.

## 3. Law governing contract

3.1 The law governing the Contract is the Laws of India supplanted by the Karnataka Local Acts.

## 4. Employer's decisions

4.1 Except where otherwise specifically stated, the Employer will decide contractual matters between the Employer and the Contractor.

## 5. Delegation

1.1 The Employer may delegate any of his duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

## 6. Communications

6.1 Communications between parties which are referred to in the conditions are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

## 7. Subcontracting

7.1 The Contractor may subcontract with the approval of the Employer but may not assign the Contract without the approval of the Employer in writing. Subcontracting does not alter the Contractor's obligations.



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# Conditions of Contract

## A. General

### 1. Definitions

1.1 Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Bold letters are used to identify defined terms.

**Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Tender.

**Compensation events** are those defined in Clause 38 hereunder.

The **Completion Date** is the date of completion of the Works as certified by the Employer in accordance with Sub Clause 46.1

The **Contract** is the contract between the Employer and the Contractor to execute, complete and maintain the Works. It consists of the documents listed in Clause 2.2 below.

The **Contract Data** defines the documents and other information which comprise the Contract.

The **Contractor** is a person or corporate body whose Tender to carry out the Works has been accepted by the Employer.



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**14. Site Investigation Reports:**

14.1 The Contractor, in preparing the tender, shall rely on any site investigation reports referred to in the Contract data, supplemented by any information available to the Tenderer.

**15. Queries about the Contract Data**

15.1 The Employer will clarify queries on the Contract Data.

**16. Contractor to construct the Works**

16.1 The Contractor shall construct the Works in accordance with the Specification and Drawings.

**17. The Works to be completed by the Intended Completion Date**

17.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the program submitted by the Contractor, as updated with the approval of the Employer, and complete them by the Intended Completion Date.

**18. Approval by the Employer:**

18.1 The Contractor shall submit Specification and drawings showing the proposed Temporary Works to the Employer, who is to approve them if they comply with the Specifications and Drawings.
18.2 The Contractor shall be responsible for the design of Temporary Works
18.3 The Employer's approval shall not alter the Contractor's responsibility for design of the Temporary Works.
18.4 The Contractor shall obtain approval of third parties to the design of third parties to the design of the temporary Works where required.
18.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Employer before their use.

**19. Safety**

19.1 The Contractor shall be responsible for the safety of all activities on the Site.

**20. Discoveries**

20.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Employer. The Contractor is to notify the Employer of such discoveries and carry out the Employer's instructions for dealing with them.

**21. Possession of the Site**

21.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the Contract Data the Employer is deemed to have delayed the start of the relevant activities and this will be Compensation Event.

**22. Access to the Site**

22.1 The Contractor shall allow the Employer and any person authorized by the Employer access to the Site, to any place where work in connection with the Contract is being carried out or is intended to be carried out and to any place where materials or plant are being manufactured / fabricated / assembled for the works.

**23. Instructions**

23.1 The Contractor shall carry out all instructions of the Employer which comply with the applicable laws where the Site is located.

**24. Procedure for resolution of Disputes:**

24.1 If the Contractor is not satisfied with the decision taken by the Employer, the dispute shall be referred by either party to Arbitration within 30 days of the notification of the Employer's decision.
24.2 if neither party refers the dispute to Arbitration within the above 30 days, the Employer's decision will be final and binding.
24.3 The Arbitration shall be conducted in accordance with the arbitration procedure stated in the Special Conditions of Contract.



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8. **Other Contractors**

8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer.

9. **Personnel**

9.1 The Contractor shall employ the technical personnel (of number and qualifications) as may be stipulated by GOK from time to time during the execution of the work. The technical staff so employed shall be available at site as may be stipulated by the Employer.

9.2 If the Employer asks the Contractor to remove a person who is a member of the Contractor's staff or his work force stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

9.3 The Contractor shall provide one four wheeler along with driver, fuel expenses to Project Engineers in-charge of work to facilitate and co-ordinate the supervision of the work as the work is clustered in different areas.

10. **Employer's and Contractor's risks**

10.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. **Employer's risks**

11.1 The Employer is responsible for the excepted risks which are:

(a) rebellion, riot commotion or disorder unless solely restricted to employees of the Contractor or his Sub-Contractors arising from the conduct of the Works; or

(b) a cause due solely to the design of the Works, other than the Contractor's design; or

(c) any operation of the forces of nature (in so far as it occurs on the Site) which an experienced contractor:

(i) could not have reasonably foreseen; or

(ii) could reasonably have foreseen, but against which he could not reasonably have taken at least one of the following measures;

(A) prevent loss or damage to physical property from occurring by taking appropriate measures or

(B) insure against such loss or damage

12. **Contractor's risks**

12.1 All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks are the responsibility of the Contractor.

13. **Insurance:**

13.1 The Contractor shall prior to commencing the works, effect and thereafter maintain insurances , in the joint names of the Employer and the Contractor, (cover from the first working day after the Start Date to the end of Defects Liability Period), in the amounts stated in the Contract Data :

(a) for loss of or damage to the Works, Plants and Materials and the Contractor's equipment;

(b) for liability of both Parties for loss, damage, death and injury to third parties or their property arising out of the Contractor's performance of the Contract including the Contractor's liability for damage to the Employer's property other than the Works and

(c) for liability of both Parties and of any Employer's representative for death and injury to the Contractor's personnel except to the extent that liability arises from the negligence of the Employer, any Employer's representative or their Employees.

13.2 Policies and certificates for insurance shall be delivered by the Contractor to the Employer for his approval before the Start Date. All such insurance shall provide for compensation to be payable to rectify the loss or damage incurred. All payments received from insurers relating to loss or damage shall be held jointly by the Parties and used for the repair of the loss or damage or as compensation for loss or damage that is not to be repaired.

13.3 If the Contractor fails to effect or keep in force any of the insurances referred to in the previous sub-clauses or fails to provide satisfactory evidence, policies or receipts, the Employer may without prejudice to any other right or remedy, effect insurance for the cover relevant to such default and pay the premiums due and recover the same as a deduction from any other monies due to the Contractor. If no payments is due, the payment of the premiums shall be a debt due.

13.4 Alterations to the terms of an insurance shall not be made without the approval of the Employer.

13.5 Both Parties shall comply with any conditions of the insurance policies.



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The **Contractor's Tender** is the complete [illegible]
The **Contract** [illegible]

31.1 The Employer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.

31.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Employer's notice.

**32. Uncorrected defects**

32.1 If the Contractor has not corrected a Defect within the time specified in the Employer's notice, the Employer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.

## D. Cost Control

**33. Bill of Quantities (BOQ)**

33.1 The BOQ shall contain items for the construction, installation, testing, and commissioning work to be done by the Contractor.

33.2 The BOQ is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the BOQ for each item

**34. Variations**

34.1 The Employer shall have power to order the Contractor to do any or all of the following as considered necessary or advisable during the progress of the work by him
(a) Increase or decrease of any item of work included in the Bill of Quantities (BOQ);
(b) Omit any item of work;
(c) Change the character or quality or kind of any item of work;
(d) Change the levels, lines, positions and dimensions of any part of the work;
(e) Execute additional items of work of any kind necessary for the completion of the works; and
(f) Change in any specified sequence, methods or timing of construction of any part of the work.

34.2 The Contractor shall be bound to carry out the work in accordance with any instructions in this connection, which may be given to him in writing by the Employer and such alteration shall not vitiate or invalidate the contract.

34.3 Variations shall not be made by the Contractor without an order in writing by the Employer, provided that no order in writing shall be required for increase or decrease in the quantity of an item appearing in the BOQ so long as the work executed conforms to the approved drawings.

34.4 The Contractor shall promptly request in writing to the Employer to confirm verbal orders and the officer issuing oral instructions shall confirm it in writing within 30 days, failing which the work shall be carried out as though there is no variation. In case variation is approved it shall be accompanied by BOQ, failing which the contractor shall be responsible for deviation if any. Further, approval of Govt. / BBMP has to be obtained for the variation exceeding 5%.

**35. Payments for Variations**

35.1 Payment for increase in the quantities of an item in the BOQ up to 25% of that provided in the Bill of Quantities shall be made at the rates quoted by the Contractor.

35.2 For quantities in excess of 125% of the tendered quantity of an item as given in the BOQ, the Contractor shall be paid at the rate entered in or derived from in the Schedule of Rates (applicable for the area of the work and current at the time of award of contract) plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract.

35.3 If there is no rate for the additional, substituted or altered item of the work in the BOQ, efforts would be made to derive the rates from those given in the BOQ or the Schedule of Rates (applicable for the area of the work and current at the time of award of contract) and if found feasible the payment would be made at the derived rate for the item plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract

35.4 If the rates for additional, substituted or altered item of work cannot be determined either as at 35.1 or 35.2 or 35.3 above, the Contractor shall be requested to submit his quotation for the items supported by analysis of the rate or rates claimed, within 7 days.

35.5 If the Contractor's quotation is determined unreasonable, the Employer may order the Variation and make a change to the Contract Price which shall be based on Employer's own forecast of the effects of the Variation on the Contractor's costs.



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## B. Time Control

**25. Program**

25.1 Within the time stated in the Contract Data the Contractor shall submit to the Employer for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works.

25.2 The Employer's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Employer again at any time. A revised Program is to show the effect of Variations and Compensation Events.

**26. Extension of the Intended Completion Date**

26.1 The Employer shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date.

26.2 The Employer shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Employer for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information.

**27. Delays ordered by the Employer**

27.1 The Employer may instruct the Contractor to delay the start or progress of any activity within the Works.

**28. Management meetings**

28.1 The Employer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the progress achieved and the plans for remaining work.

28.2 The responsibility of the parties for actions to be taken is to be decided by the Employer either at the management meeting or after the management meeting and stated in writing to be distributed to all who attended the meeting.

## C. Quality Control

**29. Identifying defects**

29.1 The Employer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Employer may instruct the Contractor to search for a Defect and to uncover and test any work that the Employer considers may have a Defect

**30. Tests**

30.1 If the Employer instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect the test shall be a Compensation Event.

**31. Correction of defects**



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between the last date for receiving bids and the date of execution as per the approved programme submitted by the contractor at the time of execution of agreement which shall mandatorily be a part of agreement.

40.1 Deleted

40.2 Deleted

**41. Liquidated damages**

41.1 The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date (for the whole of the works or the milestone as stated in the Contract Data). The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages does not affect the Contractor's liabilities.

41.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Employer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment of bill.

**42. Advance Payments: (DELETED)**

**43. Securities:**

43.1 The Security deposit (including additional security for unbalanced tenders) shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and type of instrument acceptable to the Employer. The Security deposit shall be valid until a date 30 days from the date of expiry of Defects Liability Period and the additional security for unbalanced tenders shall be valid until a date 30 days from the date of issue of the certificate of completion.

**44. Cost of Repairs:**

44.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

## E. Finishing the Contract

**45. Completion**

45.1 The Contractor shall request the Employer to issue a Certificate of Completion of the Works and the Employer will do so upon deciding that the Work is completed.

**46. Taking over**

46.1 The Employer shall take over the Site and the Works within seven days of issuing a certificate of Completion.

**47. Final account**

47.1 The Contractor shall supply to the Employer a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Employer shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 90 days of receiving the Contractor's account if it is correct and complete. If it is not, the Employer shall issue within 90 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Employer shall decide on the amount payable to the Contractor and make payment within 60 days of receiving the Contractor's revised account.

**48. As built drawings and /or Operating and Maintenance Manuals**

48.1 If "as built"( *Completion drawings*) Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.

48.2 If the Contractor does not supply the Drawings by the dates stated in the Contract Data, or they do not receive the Employer's approval, the Employer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

**49. Termination**



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35.6 If the Employer decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.

35.7 Under no circumstances the Contractor shall suspend the work on the plea of non-settlement of rates for items falling under this Clause.

**36. Submission of bills for payment**

36.1 The Contractor shall submit to the Employer monthly bills of the value of the work completed less the cumulative amount paid previously.

36.2 The Employer shall check the Contractor's bill and determine the value of the work executed which shall comprise of (i) value of the quantities of the items in the BOQ completed and (ii) valuation of Variations and Compensation Events.

36.3 The Employer may exclude any item paid in a previous bill or reduce the proportion of any item previously paid in the light of later information.

**37. Payments**

37.1 Payments shall be adjusted for deductions for advance payments other than recoveries in terms of contract and taxes, at source, as applicable under the law. The Employer shall pay the Contractor the within 60 days of submission of bill. The contractor shall be liable to pay liquidated damages for shortfall in progress. For progress beyond the agreed programme payment is subject to availability of the grants.

37.2 Items of the Works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

**38. Compensation events**

38.1 The following are Compensation events unless they are caused by the Contractor:

(a) The Employer does not give access to a part of the Site by the Site Possession Date stated in the Contract Data.

(b) The Employer orders a delay or does not issue drawings, specifications or instructions required for execution of works on time.

(c) The Employer instructs the Contractor to uncover or to carry out additional tests upon work which is then found to have no Defects.

(d) The Employer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.

(e) The effect on the Contractor of any of the Employer's Risks.

(f) The Employer unreasonably delays issuing a Certificate of Completion.

(g) Other Compensation Events listed in the Contract Data or mentioned in the Contract.

38.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date is extended. The Employer shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.

38.3 As soon as information demonstrating the effect of each Compensation event upon the Contractor's forecast cost has been provided by the Contractor, it is to be assessed by the Employer and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Employer shall adjust the Contract Price based on Employer's own forecast. The Employer will assume that the Contractor will react competently and promptly to the event.

38.4 The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor not having given early warning or not having cooperated with the Employer.

**39. Tax**

39.1 The rates quoted by the Contractor shall be deemed to be inclusive of the sales and other taxes that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

**40. Price Adjustment:**
**(As per the G.O. No. FD 3 PCL 2008, Bangalore, Dated: 21.11.2008)**
If the period of execution is more than 6 months but less than or equal to 12 months for work costing more than Rs.50 lakhs, star rates in respect of specified materials (cement, steel and bitumen) only shall be payable to the contractor based on the all India average wholesale price index for the said materials. The star rates adjustment shall be as per the increase or decrease in the index as applied to the said materials



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of labour from time to time employed by the Contractor on the Site and such other information as the Employer may require.

2. **Compliance with labour regulations**

During continuance of the contract, the Contractor and his sub contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments if any and the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, Employer shall have the right to deduct any money due to the Contractor including his amount of security deposit. The Employer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. 49.1 49.2

The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

3. **Protection of Environment:**

The contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation. During continuance of the contract, the contractor and his sub-contractors shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may be passed or notification that may be issued in this respect in future by the State or Central Government or the local authority. 49.3 49.4 49.5

4. **Arbitration (Clause 24 )**

4.1 Deleted 50

5. In the case of the death of a Contractor after executing the agreement / commencement of the work, his legal heir, if an eligible registered Contractor and willing can execute and complete the work at the accepted tender rates irrespective of the cost of the work. 51

6. The defect liability period is 2 years Security deposit amount will be released only after satisfactory completion of defect liability period.

*[ Add other Clauses specific to the work for which tenders are invited.]*

**Annexure:**

**LIST OF ORGANIZATIONS WHO ARE CONSIDERED AS APPOINTING AUTHORITY FOR APPOINTMENT OF ARBITRATORS[7]**

1. Indian Council of Arbitration, New Delhi;
2. International Centre for Alternative Disputes Resolution (India);
3. Indian Roads Congress;
4. Indian Building Congress;
5. Indian Institute of Bridge Engineers;
6. Indian Institute of Public Health Engineers;
7. Institute of Water Works

[7] Add any other Organization considered suitable.



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49.1
49.2 The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract. Fundamental breaches of Contract include, but shall not be limited to the following:

(a) the Contractor stops work for 45 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Employer;

(b) Deleted.

(c) The Contractor becomes bankrupt or goes into liquidation other than for a reconstruction or amalgamation;

(d) Deleted.

(e) the Employer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Employer;

(f) the Contractor does not maintain a security which is required;

(g) the Contractor has delayed the completion of works by the number of days for which the maximum amount of liquidated damages can be paid as defined in the Contract data; and

(h) if the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in the executing the Contract

For the purpose of this paragraph : "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition."

49.3 When either party to the Contract gives notice of a breach of contract to the Employer for a cause other than those listed under Sub Clause 49.2 above, the Employer shall decide whether the breach is fundamental or not.

49.4 Notwithstanding the above, the Employer may terminate the Contract for convenience.

49.5 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

## 50. Payment upon Termination

50.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Employer shall prepare bill for the value of the work done less advance payments received up to the date of the bill, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the Contract Data. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor the difference shall be a debt payable to the Employer.

50.2 If the Contract is terminated at the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Employer shall prepare bill for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract, and less taxes due to be deducted at source as per applicable law and make payment accordingly.

## 51. Property

51.1 All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Employer, if the Contract is terminated because of a Contractor's default.

## 52. Release from performance

52.1 If the Contract is frustrated by any event entirely outside the control of either the Employer or the Contractor the Employer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which commitment was made

# F. Special Conditions of Contract

## 1. Labour:

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

The Contractor shall, if required by the Employer, deliver to the Employer a return in detail, in such form and at such intervals as the Employer may prescribe, showing the staff and the numbers of the several classes



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between the last date for ...

| | | |
|---|---|---|
| | | requirements applicable to Karnataka |

Price Adjustment Formula: **(DELETED)** [40]

The maximum amount of liquidated damages for the whole of the works is Ten percent of final contract price. [41]

Repayment of advance payment for mobilization: **(DELETED)** [42]

The date by which "as-built" drawings (in scale 1 in 1000) in 2 sets are required is within 30 days of issue of certificate of completion of Whole or Section of the Work as the case may be. [48]

The date by which Operating and Maintenance Manuals are required is within 30 days of issue of certificate of completion of Whole or Section of the Work as the case may be. [48]

The amount to be withheld for failing to supply "as built" drawings or supply of Operation and Maintenance Manuals by the date required is [48]

The following events shall also be fundamental breach of the contract: [49.2]

1. The contractor has contravened Sub-clause 7.1 and Clause 9 of CC.

The percentage to apply to the value of the work not completed representing the Employer's [50.1]
Additional cost for completing the Works shall be 30 percent (30%).
The tenderer must have 50% of the The following materials and remaining 50 % of the materials procured on lease/ Hire basis

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## SECTION 10: FORMAT OF BANK GUARANTEE FOR SECURITY DEPOSIT

To ..... *[name of Employer]*
..... *[address of Employer]*

WHEREAS ..... *[name and address of Contractor]* (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. ..... dated : ..... to execute .....*[name of Contract and brief description of Works]* (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Rs. ..... *[amount of guarantee]* *_Rupees.....*[in words], and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of ..... *[amount of guarantee]*[9] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until 30 days from the date of expiry of the Defects Liability Period.

Signature and seal of the guarantor _____
Name of Bank _____
Address _____
Date _____

---

amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract
amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract



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## SECTION 6:
## CONTRACT DATA

**Items marked "N/A" do not apply in this Contract.**

The following documents are also part of the Contract: **Clause Reference**

- The Schedule of Operating and Maintenance Manuals [48]
- The Methodology and Program of Construction [25]
- Site Investigation Reports [14]
- The Schedule of Key and Critical Equipment to be deployed on the work as per agreed program of construction. [25]

The Employer is:
Name: The Commissioner
Address: BBMP, N.R. Square Bangalore-02 [1.1]

Name of authorized Representative Executive Engineer
Project Division – Yelahanka Zone
Bruhat Bangalore Mahanagara Palike

The name and identification number of the Contract iWorks for

Constructions of Swimming pool at Amrutha Nagara Byatarayanapura Ward No.07
The start date shall be the date of issue of notice to proceed with the work. [1.1]

The Intended Completion Date for the whole of the Works is **350 Days** with the following milestones

Milestone dates:
Physical works to be completed Period from the date of issue of Notice to proceed with the work
Milestone 1 i.e Financial Progress for Rs.350.00 Lakhs within 6 Months from the date of work order
Milestone 2 i.e Financial Progress for Rs.700.00 Lakhs within 350 Days from the date of work order

The Site Possession Date is: Date of work order [21]

The Site is located at **Yelahanka Zone** , [1.1]
and is defined in drawings nos. _____
_____

The Defects Liability Period is 2 Years. [31]

Insurance requirements are as under: [13]

| | Type of Cover | Minimum cover for Insurance |
|---|---|---|
| (i) | Works and of Plant and materials | The sum stated in the Agreement plus 20% |
| (ii) | Loss or damage to equipment | Full replacement cost |
| (iii) | Loss or damage to property of Third Party | Full replacement cost |
| (iv) | Personal injury or death insurance (a) for Third Party | |
| | (b) for Contractor's employees or labour | In accordance with the statutory |



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(60)

## ...NGALORE MAHANAGARA PALIKE

...the Executive Engineer, Project Division, ...atarayanapura, Bangalore - 560 0...

...ND/23/2017-18 Date: 18.12.2017

## ...SHORT TERM TENDER

(Through GOK e-Procurement Portal ...)

...eer (Project Division), Yelahanka Zone ...on ...missioner invites Tenders from the eligible ...tors for the construction of work.

| Name of work | Amt. put to tender (in Rs.) | EMD (in Rs.) |
|---|---|---|
| ...f Swimming Pool at ... Byatrayana-...07 | 700.00 Lakhs | ...50 Lakhs |

...an be downloaded from the GOK ...) Last date & time for Queries only ...018 upto 4.00 p.m. 3) Date and time ...05.01.2018 at 4.00 p.m. 4) Last date & ...Tenders: 09.01.2018 upto 4.00 p.m. ...al bid: 10.01.2018 at 4.30 p.m. ...Bid (If possible) 12.01.2018 ...4.30 ...rs may be obtained from the above ...hours & also from website: ...gov.in

...r, Project Division, Yelahanka Zone.

...charges, help to develop Bengaluru

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## ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಸಹಾಯಕ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಯವರ ಕಛೇರಿ,
ಉಪ ವಿಭಾಗ-2, 1ನೇ ಮಹಡಿ, ಜಯನಗರ 2ನೇ ಬ್ಲಾಕ್, ಬೆಂಗಳೂರು.

ದಿನಾಂಕ: 21.12.2017

ಸಂ: ಸ.ಅ.ಸಂ/ಉ.ವಿ-2/4.ಆರ್/129/2017-18

### ಟೆಂಡರ್ ಕಂ ಹರಾಜು ಪ್ರಕಟಣೆ

ಈ ಮೂಲಕ ಸಾರ್ವಜನಿಕರಿಗೆ ತಿಳಿಯಪಡಿಸುವುದೇನೆಂದರೆ, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆಯ ಬೊಮ್ಮನಹಳ್ಳಿ ವಲಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮದ ರೀಚ್-6 (ಫೇಸ್-2) ಜೆ.ಡಿ. ಮರ ಕ್ರಾಸ್‌ನಿಂದ ಮೀನಾಕ್ಷಿ ದೇವಸ್ಥಾನದವರೆಗಿನ ವಿವಿಧ ಜಾತಿಯ ಒಟ್ಟು 44 ಮರಗಳನ್ನು ಉಪ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಗಳಿಂದ ಅಧಿಕಾರ ನಿಯೋಜಿಸಲ್ಪಟ್ಟ ಸಹಾಯಕ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಗಳು, ಉಪ ವಿಭಾಗ-2 ಇವರು ಸಹಾಯಕ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿಗಳ ಕಛೇರಿ, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ, ಮೊದಲನೇ ಮಹಡಿ, ಜಯನಗರ 2ನೇ ಬ್ಲಾಕ್, ಬೆಂಗಳೂರು ಇಲ್ಲಿ ಸಾರ್ವಜನಿಕವಾಗಿ ದಿನಾಂಕ: 29.12.2017ರಂದು ಬೆಳಿಗ್ಗೆ 11.30 ಗಂಟೆಗೆ ಟೆಂಡರ್ ಕಂ ಹರಾಜಿನ ಮೂಲಕ ವಿಲೇವಾರಿ ಮಾಡಲಾದ್ದೇಶಿಸಿದ್ದು, ಸದರಿ ಹರಾಜಿನಲ್ಲಿ ಭಾಗವಹಿಸಲು ಆಸಕ್ತಿಯುಳ್ಳವರು ಈ ಕೆಳಗೆ ಸೂಚಿಸಿರುವ ಷರತ್ತು ಮತ್ತು ನಿಬಂಧನೆಗಳನ್ವಯ ಸದರಿ ಟೆಂಡರ್ ಕಂ ಹರಾಜಿನಲ್ಲಿ ಭಾಗವಹಿಸಬಹುದು.

| ಕ್ರಮ ಸಂಖ್ಯೆ | ವಲಯ | ಮರಗಳ ಜಾತಿ | ಮರಗಳ ಸಂಖ್ಯೆ | ಇ.ಎಂ.ಡಿ. ಮೊತ್ತ | ಮರಗಳಿರುವ ಸ್ಥಳ |
|---|---|---|---|---|---|
| 1 | ಬೊಮ್ಮನಹಳ್ಳಿ | ಕಮೂಚಿಯಾ ರೋಸಿಯಾ | 04 | 10,000/- | ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲು ನಿಗಮದ ರೀಚ್-6 (ಫೇಸ್-2) ಜೆ.ಡಿ. ಮರ ಕ್ರಾಸ್‌ನಿಂದ ಮೀನಾಕ್ಷಿ ದೇವಸ್ಥಾನ, ಬೆಂಗಳೂರು. |
| | | ಮಳೆ ಮರ | 02 | | |
| | | ಕಾಡುಬಾದಾಮಿ ಮರ | 05 | | |
| | | ಬೀಲಗಿರಿ | 01 | | |
| | | ಸಿಸು | 02 | | |
| | | ಗುಲ್‌ಮೊಹರ್ | 05 | | |
| | | ಸ್ಪೆಥೋಡಿಯಾ | 04 | | |
| | | ಅಕಾರ ಮಲ್ಲಿಗೆ | 01 | | |
| | | ಸಂಪಿಗೆ | 02 | | |
| | | ಅರಳಿ | 03 | | |
| | | ಅಶೋಕ | 04 | | |
| | | ಹೊಂಗೆ | 04 | | |
| | | ಬೇವಿನ ಮರ | 03 | | |
| | | ಮತ್ತಿ | 02 | | |
| | | ಕದಂಬ | 01 | | |
| | | ನೇರಳೆ | 01 | | |
| | | ಒಟ್ಟು | 44 | | |

1) ಟೆಂಡರ್ ಫಾರಂ ಅನ್ನು ಮೇಲ್ಕಂಡ ಕಛೇರಿಯಿಂದ ದಿನಾಂಕ: 26.12.2017 ... 28.12.2017ರ ಸಾಯಂಕಾಲ 5.00 ಗಂಟೆವರೆಗೆ ಪಡೆಯಬಹುದು. 2) ಟೆಂಡರ್ ... ಹರಾಜಿನಲ್ಲಿ ಭಾಗವಹಿಸಲು ಇಚ್ಛಿಸುವ ಬಿಡ್‌ದಾರನು ಮಂಗಡವಾಗಿ ರೂ. 10,000/- ... ಗಳನ್ನು ಆಯುಕ್ತರು, ಬಿಬಿಎಂಪಿ ರವರ ಹೆಸರಿಗೆ ರಾಷ್ಟ್ರೀಕೃತ ಬ್ಯಾಂಕ್‌ನಿಂದ ... ಮುಖಾಂತರ ಪಡೆದು ಈ ಕಛೇರಿಯಲ್ಲಿ ಪಾವತಿಸಿ ರಶೀದಿ ಪಡೆದು ನಂತರ ಹರಾಜಿನಲ್ಲಿ ಭಾಗವಹಿಸತಕ್ಕದ್ದು. 3) ಫರ್ಕ್ ಮಾಡಿದ ಟೆಂಡರ್ ಫಾರಂ ಅನ್ನು ಸಲ್ಲಿಸುವ ಕೊನೆ ದಿನಾಂಕ: 29.12.2017ರ ಮಧ್ಯಾಹ್ನ 11.30 ಗಂಟೆವರೆಗೆ. 4) ಬಹಿರಂಗ ಹರಾಜು 29.12.2017ರ ಮಧ್ಯಾಹ್ನ 12.30 ಗಂಟೆಗೆ. ಹೆಚ್ಚಿನ ಮಾಹಿತಿಗಾಗಿ ಸಹಾಯಕ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ, ಉಪ ವಲಯ ಅಧಿಕಾರಿ ರವರನ್ನು ಕಛೇರಿ ಸಮಯದಲ್ಲಿ ಸಂಪರ್ಕಿಸಬಹುದಾಗಿರುತ್ತದೆ. ದೂರವಾಣಿ ಸಂಖ್ಯೆ: 9480685539/984516150... ಯನ್ನು ಸಂಪರ್ಕಿಸಿ ಮಾಹಿತಿ ಪಡೆಯಬಹುದಾಗಿದೆ.

ಸಹಿ/-
ಸಹಾಯಕ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ,
ಉಪ ವಿಭಾಗ-2, ಬಿಬಿಎಂಪಿ.

| Process Name | Task Details | Assigned To | Created On | Started On | Completed On | Decision | Comments | Status |
|---|---|---|---|---|---|---|---|---|
| Bid Evaluation" | Add Scrutiny Committee Representative For Evaluation of Tender BBMP/2017-18/OW/WORK_INDENT28222 | bbmp_ee5_yel-H V YARAPPA REDDY(A/C) | 2018-01-16 13:22:12.0 | 2018-01-16 13:22:23.0 | 2018-01-16 13:22:25.0 | Completed | | Completed |
| Bid Evaluation" | Technical Bids Opening for BBMP/2017-18/OW/WORK_INDENT28222 | bbmp_ee5_yel-H V YARAPPA REDDY(A/C) | 2018-01-16 13:22:01.0 | 2018-01-16 13:22:10.0 | 2018-01-16 13:22:12.0 | Completed | | Completed |
| Bid Evaluation" | Verify EMDs for tender BBMP/2017-18/OW/WORK_INDENT28222 | bbmp_ee5_yel-H V YARAPPA REDDY(A/C) | 2018-01-10 17:23:10.0 | 2018-01-10 17:23:26.0 | 2018-01-16 13:22:01.0 | Completed | | Completed |
| Bid Evaluation" | Tender Opening for BBMP/2017-18/OW/WORK_INDENT28222 | bbmp_ee5_yel-H V YARAPPA REDDY(A/C) | 2018-01-10 16:30:05.0 | 2018-01-10 17:23:00.0 | 2018-01-10 17:23:10.0 | Completed | | Completed |
| Bid Evaluation" | Start Bid Evaluation | bbmp_ee5_yel-H V YARAPPA REDDY(A/C) | 2018-01-10 16:30:05.0 | 2018-01-10 16:30:05.0 | 2018-01-10 16:30:05.0 | Submit | | Completed |
| Tender Schedule / Notice Inviting Tender Approval" | Perform approval for Draft Tender Schedule with Number BBMP/2017-18/OW/WORK_INDENT28222 | bbmp_ee5_yel-H V YARAPPA REDDY(A/C) | 2018-01-05 12:01:51.0 | 2018-01-05 12:01:56.0 | 2018-01-05 12:02:12.0 | Approve | Approved | Completed |
| Tender Schedule / Notice Inviting Tender Approval" | SubmitDTS | bbmp_ee5_yel-H V YARAPPA REDDY(A/C) | 2018-01-05 12:01:50.0 | 2018-01-05 12:01:50.0 | 2018-01-05 12:01:50.0 | Submit | | Completed |

BRUHAT BANGALORE MAHANAGARA PALIKE

**Completion Certificate**

Office of the Executive Engineer, Bruhat Bangalore Mahangara Palike,
Project Division, Bangalore - 560 092

**Name of Work: Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07**

| SL No | Particulars | |
|---|---|---|
| 1 | Name of Contractor | **Sri.K Somappa** |
| 2 | Amount of Estimate | **Rs. 700.00 Lakhs** |
| 3 | Amount of Expenditure | **Rs. 70072493.00(inculding GST)** |
| | a) Excess | - |
| | b) Savings | - |
| 4 | Date of Commencement of work | 07-09-2018 |
| 5 | Date of Completion of work | 31-08-2024 |
| 6 | Name of the Subordinate in charge of the Work | Sri. Anjaneyalu . 13.12 |
| 7 | Name of the Inspecting Officer | Sri.K.G.Sundresh |
| 8 | Other Details if any | - |

Assistant / Junior Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Project Sub Division
Bangalore - 92

Executive Engineer
Bruhat Bangalore Mahangara Palike
Project Division
Bangalore - 92

Chief Engineer,
Yelahanka Zone
BBP Bangalore.

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಟಿಪ್ಪಣಿ ಹಾಳೆ

ವಿಷಯ ..... ಪುಟದ ಸಂಖ್ಯೆ -1-

..... ಕಡತದ ಸಂಖ್ಯೆ [illegible] 143/24-25

| ಕಂಡಿಕೆ ಸಂಖ್ಯೆ | ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು |
|---|---|

ಮಂಡಿಸಿದೆ:

ವಿಷಯ:-ಯೋಜನಾ ವಿಭಾಗದಿಂದ ಅನುಷ್ಠಾನಗೊಳಿಸಿರುವ Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07 ಕಾಮಗಾರಿಯ ಬಗ್ಗೆ

ಉಲ್ಲೇಖ:-1. ತಮ್ಮ ಕಛೇರಿಯ ಪತ್ರದ ಸಂಖ್ಯೆ:ಮುಅ/ಗುಣಭರವಸೆ/ಪಿಆರ್/04/ 2022-23 ದಿನಾಂಕ: 19-08-2022.

2. ಕಾರ್ಯಾದೇಶ ಸಂಖ್ಯೆ: EE(Project)/YNK Zone/WO/12/ 2018-19 ದಿನಾಂಕ: 07-09-2018

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1) Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07 ಕಾಮಗಾರಿಗೆ 2014-2015ನೇ ಸಾಲಿನ ಆಯವ್ಯಯದ ಮಾನ್ಯ ಮುಖ್ಯ ಮಂತ್ರಿಗಳ ನಗರೋತ್ಥಾನ ಯೋಜನೆಯಡಿಯಲ್ಲಿ ಕ್ರಿಯಾ ಯೋಜನೆ ಪಟ್ಟಿ ಕ್ರಮ ಸಂ:514ರಲ್ಲಿ ಅನುದಾನ ಮಂಜೂರಾಗಿರುತ್ತದೆ. ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ ಪಿ-1732 Road Network Arterial roads ಅನುದಾನ ಅಡಿಯಲ್ಲಿ ಕಾಮಗಾರಿಯ ಅಂದಾಜು ಮೊತ್ತ ರೂ.700.00 ಲಕ್ಷಗಳಿಗೆ ಜಾಬ್ ಕೋಡ್ ಸಂಖ್ಯೆ: 007-15-000059 ಅನ್ನು ಪಡೆಯಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಕಾಮಗಾರಿಗೆ ಮುಖ್ಯ ಅಭಿಯಂತರರು ಯಲಹಂಕ ವಲಯರವರು ಸಂಖ್ಯೆ:ಬಿಬಿಎಂಪಿ/ಮು.ಅ/ಯವ/ತಾ.ಮಂ/432/2017-2018 ದಿ: 11-12-2017 ರಂದು ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಯನ್ನು ನೀಡಿರುತ್ತಾರೆ.

2) ಸದರಿ ಕಾಮಗಾರಿಗೆ ಇ-ಪ್ರೊಕ್ಯೂರ್‌ಮೆಂಟ್ ಮುಖೇನ ದಿ:18-12-2017ರಂದು ಟೆಂಡರ್ ಆಹ್ವಾನಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಟೆಂಡರ್‌ನ ತಾಂತ್ರಿಕ ಬಿಡ್‌ನ್ನು ದಿನಾಂಕ:16-01-2018ರಂದು ತೆರೆಯಲಾಗಿದ್ದು, ಆರ್ಥಿಕ ಬಿಡ್‌ನ್ನು ದಿನಾಂಕ: 07-03-2018ರಂದು ತೆರೆಯಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಟೆಂಡರ್‌ನಲ್ಲಿ ಕನಿಷ್ಠ ದರ ನಮೂದಿಸಿದ ಗುತ್ತಿಗೆದಾರರಾದ ಶ್ರೀ.ಕೆ.ಸೋಮಪ್ಪ ರವರು ನಮೂದಿಸಿರುವ ಟೆಂಡರ್ ಮೊತ್ತ ರೂ.7,00,75,262.00ಗಳಿಗೆ ಘನ ಸರ್ಕಾರ ಆದೇಶ ಸಂ:ನಅನ/256/ಎಂ.ಎನ್.ವೈ/2018 ಬೆಂಗಳೂರು ದಿನಾಂಕ:25-08-2018ರಂತೆ ಟೆಂಡರ್ ಅನುಮೋದನೆಗೊಂಡಿರುತ್ತದೆ.

3) ಸದರಿ ಟೆಂಡರ್ ಕಾಮಗಾರಿಯಲ್ಲಿ ಅನುಮೋದಿತ ಗುತ್ತಿಗೆದಾರರಾದ ಶ್ರೀ.ಕೆ.ಸೋಮಪ್ಪ ರವರಿಗೆ 2016-17ನೇ ಸಾಲಿನ ಎಸ್.ಆರ್. ದರಪಟ್ಟಿಯಂತೆ ಶೇ.1.99%ರಷ್ಟು ಹೆಚ್ಚು ದರಗಳಿಗೆ ರೂ.7,00,75,262.00ಗಳಲ್ಲಿ ಕಾಮಗಾರಿಗೆ ನಿರ್ವಹಿಸಲು ಯೋಜನಾ ವಿಭಾಗದಿಂದ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಕಾರ್ಯಾದೇಶವನ್ನು ಸಂಖ್ಯೆ:ಕಾ.ಪಾ.ಅ (ಯೋ)/ಕೆ.ಆ/12/2018-19 ದಿನಾಂಕ:07-09-2018ರಲ್ಲಿ ನೀಡಲಾಗಿರುತ್ತದೆ.

4) ಪ್ರಸ್ತುತ ಸದರಿ ಕಾಮಗಾರಿಯು ಪೂರ್ಣಗೊಂಡಿದ್ದು, ಕಾಮಗಾರಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ 5ನೇ ಹಾಗೂ ಅಂತಿಮ ಬಿಲ್ಲಿನ ಮೊತ್ತ ರೂ.1,37,26,649/- ಜಿ.ಎಸ್.ಟಿ(18%) ಮೊತ್ತ ರೂ.24,70,797.00 ಒಟ್ಟು ರೂ.1,61,97,446..00 ಗಳಿಗೆ ಸಲ್ಲಿಸುತ್ತಿದ್ದು, ಸದರಿ ಕಾಮಗಾರಿಗೆ ಗುಣಭರವಸೆ ವಿಭಾಗದಿಂದ ಪರಿಶೀಲನೆ ನಡೆಸಿ ವರದಿ ನೀಡುವಂತೆ ಕೋರಿ ಕಡತವನ್ನು ತಮ್ಮ ಮುಂದಿನ ಆದೇಶಕ್ಕಾಗಿ ಮಂಡಿಸಿದೆ.

ಸ.ಅ

ಸ.ಕಾ.ಪಾ.ಅ(ಯೋ.ವಿ)

Asst. Executive Engineer
Project Division
Yalahanka Zone
BBMP, Bangalore - 92

5) ಕಾ.ಪಾ.ಅ(ಯೋ.ವಿ-ಯ.ವ)

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನೆ ವಿಭಾಗ ,ಯಲಹಂಕ ವಲಯ
ಬೃ.ಬೆಂ.ಮ.ಪಾ. ಬೆಂಗಳೂರು - 92.

# ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

## ಟಿಪ್ಪಣಿ ಹಾಳೆ

ವಿಷಯ ..... ಪುಟದ ಸಂಖ್ಯೆ .....

..... ಕಡತದ ಸಂಖ್ಯೆ .....

| ಕಂಡಿಕೆ ಸಂಖ್ಯೆ | ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು |
|---|---|

ವಿಷಯ:– ~~Construction of Swimming Pool at Amrutha Nagara,~~ Byatarayanapura Ward No. 7 ರ ಕಾಮಗಾರಿಯನ್ನು ಗುಣಭರವಸೆ ವಿಭಾಗದ ವತಿಯಿಂದ ಕೈಗೊಂಡ ತಪಾಸಣಾ ವರದಿ.

ಉಲ್ಲೇಖ:– 1. ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಆದೇಶದ ಸಂಖ್ಯೆ:ಮು.ಆ/ಪಿಎಸ್ಆರ್ (ಜಿ)/1646/2022–23, ದಿ:01.08.2022.

2. ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಆದೇಶದ ಸಂಖ್ಯೆ:ಮು.ಆ/ಪಿಎಸ್ಆರ್(ಜಿ)/2383/2022–23, ದಿ: 14.09.2022

3. ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ–ಯಲಹಂಕ) ವಿಭಾಗದ ರವರ ಕಡತದ ಸಂಖ್ಯೆ:ಕಾ.ಪಾ.ಅ/Project/YNK/ಪಿ.ಆರ್/143/2024–25, ದಿ: 09.09.2024.

4. ಮುಖ್ಯ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ) ರವರ ಸಭೆಯ ನಡವಳಿ ಸಂಖ್ಯೆ:02/2024–25, ದಿನಾಂಕ:31–07–2024.

(7)

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ಮೇಲ್ಕಂಡ ವಿಷಯ ಹಾಗೂ ಉಲ್ಲೇಖಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, (ಯೋಜನೆ–ಯಲಹಂಕ) ವಿಭಾಗದ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು Construction of Swimming Pool at Amrutha Nagara, Byatarayanapura Ward No. 7, Estimate Cost: 700.00 Lakhs, Job No: 007-15-000059, (5th & Final Bill) ರ ಸದರಿ ಕಾಮಗಾರಿಗೆ Quality Assurance ವರದಿ ಪಡೆಯಲು ಕೋರಿ ಕಡತವನ್ನು ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ–ಯಲಹಂಕ) ರವರು ದಿನಾಂಕ: 09.09.2024 ರಂದು ಈ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಿರುತ್ತಾರೆ.

(8)

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ–ಯಲಹಂಕ) ವಿಭಾಗದ ರವರು ಗುಣಭರವಸೆ ವರದಿ ನೀಡಲು ಕೋರಿದ್ದು, ಸದರಿ ಕಾಮಗಾರಿಯ ಗುಣಭರವಸೆ ವರದಿ ಕೋರಿರುವ ಕಾಮಗಾರಿಯ ಅಂದಾಜು ಮೊತ್ತವು 700.00 ಲಕ್ಷಗಳಾಗಿದ್ದು, ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಆದೇಶದ ಸಂಖ್ಯೆ:ಮುಆ/ಪಿಎಸರ್(ಜಿ)/1646/2022–23, ದಿ:01.08.2022 ರಂತೆ ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ) ರವರ ವ್ಯಾಪ್ತಿಗೆ ಒಳಪಡುವ ಅಂಶವನ್ನು ತಮ್ಮ ಅವಗಾಹನೆಗೆ ಸಲ್ಲಿಸಿದೆ.

(9)

ಉಲ್ಲೇಖ ಪತ್ರ (1) ರಂತೆ ವಿಭಾಗದ ಅನುಷ್ಠಾನ ಅಭಿಯಂತರರು/ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು/ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ರವರಿಗೆ ದೂರವಾಣಿ ಮುಖೇನ ಹಾಗೂ ಪತ್ರದ ಮುಖೇನ ಹಲವು ಬಾರಿ ಕಾಮಗಾರಿಯನ್ನು ಅನುಷ್ಠಾನಗೊಳಿಸುವ ಮುನ್ನ ಈ ಕಛೇರಿಗೆ ಮಾಹಿತಿ ನೀಡಲು ಸೂಚಿಸಿದರೂ ಸಹ ಮಾಹಿತಿಯನ್ನು ಈ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಿರುವುದಿಲ್ಲ. ಈ ಸಂಬಂಧ ಉಲ್ಲೇಖ (3) ರಲ್ಲಿ 5ನೇ ಹಾಗೂ ಅಂತಿಮ ಬಿಲ್ಲಿಗೆ ಗುಣಭರವಸೆ ವರದಿ ನೀಡಲು ಕೋರಿರುತ್ತಾರೆ. ಈ ಸಂಬಂಧ ಉಲ್ಲೇಖ(4)ರ ಮುಖ್ಯ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ) ರವರ ಸಭೆಯ ನಡವಳಿಯಂತೆ 5ನೇ ಹಾಗೂ ಅಂತಿಮ ಬಿಲ್ಲಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಪೂರ್ಣಗೊಂಡಿರುವ ಸ್ಥಳಕ್ಕೆ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಯೋಜನೆ–ಯಲಹಂಕ), ಯೋಜನಾ ಸಮಾಲೋಚಕರು ಹಾಗೂ ಗುಣಭರವಸೆ ವಿಭಾಗದ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ರವರುಗಳೊಡನೆ ಭೇಟಿ ನೀಡಿದ ಸಂದರ್ಭದಲ್ಲಿ ಕಾಮಗಾರಿಯು ಈಜುಕೊಳ ಕಾಮಗಾರಿಯಗಿದ್ದು, ಕಾಮಗಾರಿಯು ಪೂರ್ಣಗೊಂಡಿರುತ್ತದೆ ಹಾಗೂ

(10)

ಪು.ತಿ.ನೋ

ಪುಟದ ಸಂಖ್ಯೆ .....

ವಿಷಯ : ಕಡತದ ಸಂಖ್ಯೆ .....

| ಕಂಡಿಕೆ ಸಂಖ್ಯೆ | ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು |
|---|---|

(11)

ಸಲ್ಲಿಸಲಾಗಿರುವ ಸದರಿ ಬಿಲ್ಲಿನಸ್ವಯ ಪ್ರಮುಖವಾಗಿ Stainless Steel, Granite Slab, Vitrified Tiles, Wooden Flooring ಮತ್ತು ಇನ್ನಿತರೆ ಅಂಶಗಳನ್ನು ನಿರ್ವಹಿಸಿರುವುದು ಗಮನಿಸಲಾಗಿರುತ್ತದೆ. ಕಾಮಗಾರಿ ಸ್ಥಳದ ವಿವರ ಈ ಕೆಳಕಂಡಂತಿರುತ್ತದೆ.

**Location:**

1. Swimming Pool Building at Amrutha Nagara, Byatarayanapura Ward No. 7.

(12)

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಕಾಮಗಾರಿ ಸ್ಥಳದಲ್ಲಿ Stainless Steel, Granite Slab, Vitrified Tiles, Wooden Flooring ಮಾದರಿಗಳನ್ನು ಸಂಗ್ರಹಿಸಿ ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದಲ್ಲಿ ಪರಿಕ್ಷೀಸಿ, ಪರೀಕ್ಷಾ ವರದಿಯನ್ನು ಪಡೆದು ಸಲ್ಲಿಸಿರುತ್ತಾರೆ ಎಂಬುದನ್ನು ತಮ್ಮ ಅವಗಾಹನೆಗೆ ತರಲಾಗಿದೆ. ಸದರಿ ಪರೀಕ್ಷಾ ವರದಿಯ ಆಧಾರದ ಮೇಲೆ ಗುಣಭರವಸೆ ವರದಿಯನ್ನು ತಯಾರಿಸಿದ್ದು, ಸದರಿ ವರದಿಯನ್ನು ತಮ್ಮ ಆದ್ಯ ಗಮನಕ್ಕೆ ಸಲ್ಲಿಸುತ್ತಾ ಒಪ್ಪಿದಲ್ಲಿ ಮುಂದಿನ ಕ್ರಮಕ್ಕಾಗಿ ಸಲ್ಲಿಸಿದೆ. ಮುಂದುವರೆದು ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರವರ ಕಛೇರಿ ಆದೇಶಗಳನ್ವಯ ಅನುಷ್ಠಾನ ಅಭಿಯಂತರರು ನಿರ್ಮಿಸಲಾಗುವ/ನಿರ್ವಹಿಸಲಾಗುವ ಕಾಮಗಾರಿ ಅಂಶಗಳ ಪರಿಮಾಣ, ಅಳತೆ ಹಾಗೂ ಗುಣಮಟ್ಟಕ್ಕೆ ನಿರ್ಮಾಣ ಘಟಕದ ಇಂಜಿನಿಯರ್‌ಗಳು ಸಂಪೂರ್ಣ ಜವಾಬ್ದಾರರಾಗಿರುತ್ತಾರೆ ಎಂದು ಸ್ಪಷ್ಟೀಕರಿಸುತ್ತಾ ಮತ್ತು ನಿರ್ಮಾಣ ಘಟಕದ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್‌ರವರು ಉಲ್ಲೇಖ (1) ರ ಮಾರ್ಗಸೂಚಿಯಲ್ಲಿ ನಮೂದಿಸಿರುವಂತೆ ಸಮಯೋಚಿತವಾಗಿ ಗುಣಮಟ್ಟದ ಸಾಮಾಗ್ರಿಗಳನ್ನು ಬಳಸಿ, ಸ್ಥಾಪಿತ ನಿರ್ಮಾಣ ಪದ್ಧತಿಗಳಂತೆ ನಿರ್ವಹಿಸಿರುವ ಬಗ್ಗೆ ಮತ್ತೊಮ್ಮೆ ದೃಢೀಕರಿಸಿಕೊಂಡು ಅಳತೆಗಳ ಪರಿಶೀಲನೆಯನ್ನು ಕಡ್ಡಾಯವಾಗಿ ಕೈಗೊಂಡು ಮತ್ತೊಮ್ಮೆ ಈ ಕೆಳಕಂಡ ಷರತ್ತುಗಳಿಗೆ ಒಳಪಟ್ಟು ಮುಂದಿನ ಸೂಕ್ತ ಕ್ರಮ ಕೈಗೊಳ್ಳಬಹುದಾಗಿದೆ ಎಂದು ಅಭಿಪ್ರಾಯಪಡಲಾಗಿದೆ.

1. ಕಾಮಗಾರಿಯು ಈಗಾಗಲೇ 5ನೇ ಮತ್ತು ಅಂತಿಮ ಬಿಲ್‌ನ್ನು ನಮೂದಿಸಿ ಸಲ್ಲಿಸಿರುವುದರಿಂದ ಸದರಿ ಕಾಮಗಾರಿಯ ಐಟಂವಾರು ಅಂಶಗಳನ್ನು, ಅಳತೆಗಳು ಮತ್ತು ಪರಿಮಾಣಗಳ ಬಗ್ಗೆ ಮತ್ತೊಮ್ಮೆ ಸಂಬಂಧಪಟ್ಟ ಅನುಷ್ಠಾನದ ಸಹಾಯಕ ಅಭಿಯಂತರರು, ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಮತ್ತು ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ರವರು ಖಾತರಿಪಡಿಸಿಕೊಳ್ಳುವುದು.
2. ಕಾಮಗಾರಿಯ ಗುಣಮಟ್ಟ ಎಲ್ಲಾ ಸಾಮಗ್ರಿಗಳನ್ನು ಸಮರ್ಪಕವಾಗಿ ವಿಶಿಷ್ಟ ಪ್ರಮಾಣದಲ್ಲಿ ವಿಶಿಷ್ಟತೆ/ವಿವರಣೆಗೆ ಅನುಗುಣವಾಗಿ ಬಳಸಿರುವ ಬಗ್ಗೆ ಅನುಷ್ಠಾನ ಅಭಿಯಂತರರು ಖಚಿತಪಡಿಸಿಕೊಳ್ಳುವುದು.
3. ಕಾಮಗಾರಿಯ ಅನುಷ್ಠಾನದ ಹಂತದಲ್ಲಿ ಯಾವುದೇ ಹಂತದಲ್ಲಿ ಕಳಪೆ ಕಾಮಗಾರಿ ಬಗ್ಗೆ ಸಾರ್ವಜನಿಕರಿಂದ, ಅಧಿಕಾರಿಗಳಿಂದ, ತನಿಖಾ ಸಂಸ್ಥೆಗಳಿಂದ ದೂರು ದಾಖಲಾಗಿರುವ ಬಗ್ಗೆ ತಮ್ಮ ಹಂತದಲ್ಲಿ ಪರಿಶೀಲಿಸಿ ಕಳಪೆ ಕೆಲಸ ಆಗಿಲ್ಲದಿರುವುದರ ಬಗ್ಗೆ ಖಾತರಿಪಡಿಸಿಕೊಳ್ಳುವುದು.

(13)

4. ಕಾಮಗಾರಿಯ ಟೆಂಡರ್/ಗುತ್ತಿಗೆ ಕರಾರಿನ ಷರತ್ತಿನಂತೆ ಕಾಮಗಾರಿ ಕೈಗೊಂಡಿರುವುದನ್ನು ಖಾತ್ರಿ ಪಡಿಸಿಕೊಳ್ಳುವುದು.
5. ಗುಣಭರವಸೆ ಹಾಗೂ ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗದಿಂದ ಕೈಗೊಂಡಿರುವ ಗುಣಮಟ್ಟ ಪರೀಕ್ಷಾ ವಿವರಗಳನ್ನು ಕಾಮಗಾರಿ ಅನುಷ್ಠಾನ ಮಾಡಲಾಗಿರುವ ಅಭಿಯಂತರರುಗಳು ಪರಿಶೀಲಿಸಿ ಮುಂದಿನ ಕ್ರಮವಹಿಸತಕ್ಕದ್ದು.
6. ಕಾಮಗಾರಿಯ ಟೆಂಡರ್/ಗುತ್ತಿಗೆ ಅವಧಿ ಮುಗಿದಿದ್ದಲ್ಲಿ ಹಾಗೂ ಪೂರ್ಣಗೊಳಿಸಲು ನಿಗಧಿತ ದಿನಾಂಕದ ನಂತರ ವಹಿಸಿದ್ದಲ್ಲಿ EOT ಅನ್ನು ಸಕ್ಷಮ ಪ್ರಾಧಿಕಾರದಿಂದ ಅನುಮೋದನೆಗೊಂಡಿರುವ ಬಗ್ಗೆ ಖಾತ್ರಿ ಪಡಿಸಿಕೊಳ್ಳುವುದು.
7. ಹೆಚ್ಚುವರಿ ಅಂಶಗಳು/ ಅಧಿಕ ಪ್ರಮಾಣಗಳು (EIRL/Work Slip) ಮತ್ತು ಸ್ಥಳ ಬದಲಾವಣೆಗಳು ಇದ್ದಲ್ಲಿ ಅವುಗಳು ಅನುಮೋದನೆಗೊಂಡಿರುವ ಬಗ್ಗೆ ಧೃಢೀಕರಿಸತಕ್ಕದ್ದು.

(14)

ಸದರಿ ಕಾಮಗಾರಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದಿಂದ ಪಡೆದ ಪರೀಕ್ಷಾ ವರದಿಗಳ ಪರೀಕ್ಷಾ ಫಲಿತಾಂಶಗಳು ನಿರ್ದಿಷ್ಟ/ಮಾನದಂಡಗಳ ವಿಶೇಷಣೆಗಳಿಗೆ ಅನುಗುಣವಾಗಿರುವುದು ಕಂಡುಬಂದಿರುತ್ತದೆ. ಅದರಂತೆ ಸದರಿ ಫಲಿತಾಂಶದಲ್ಲಿನ ಅಂಶಗಳನ್ನು, ಒಳಗೊಂಡಂತೆ ಗುಣಭರವಸೆಯ

# ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

## ಟಿಪ್ಪಣಿ ಹಾಳೆ

ವಿಷಯ ..... ಪುಟದ ಸಂಖ್ಯೆ .....

..... ಕಡತದ ಸಂಖ್ಯೆ .....

| ಕಂಡಿಕೆ ಸಂಖ್ಯೆ | ಟಿಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು |
|---|---|
| (15) | ವರದಿಯನ್ನು ತಯಾರಿಸಿ ಕಾಮಗಾರಿ ಅನುಷ್ಠಾನ ಅಧಿಕಾರಿಗಳಿಗೆ ಸಲ್ಲಿಸಲು ಹಾಗೂ ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಆದೇಶದ ಸಂಖ್ಯೆ:ಮುಆ/ಪಿಎಸ್ಆರ್/2383/2022-23, ದಿನಾಂಕ:14.09.2023 ರಂತೆ ವರದಿಯನ್ನು ಸಿದ್ದಪಡಿಸಿದ್ದು ವರದಿಯನ್ನು ಪರಿಶೀಲಿಸಿಕೊಂಡು ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ರವರ ಕಛೇರಿ ಸಂಖ್ಯೆ:ಮುಆ/ಪಿಎಸ್ಆರ್(ಜಿ)/1646/2022-23, ದಿನಾಂಕ:01.08.2022 ರಂತೆ ವರದಿಯನ್ನು ನಿಯಮಾನುಸಾರ ಪರಿಶೀಲಿಸಿ ಅಗತ್ಯ ಕ್ರಮವಹಿಸಲು ಆದೇಶ ಕೋರಿ ಕಡತವನ್ನು ಸಲ್ಲಿಸಿದೆ.<br><br>18/9/24<br>ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ) |
| (16) | ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ)<br><br>ಕಂಡಿಕೆ ( 7 ) ರಿಂದ ( 15 ) ರವರೆಗಿನ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ) ವಿಭಾಗದವರ ವರದಿಯನ್ನು ಅನುಮೋದಿಸಿ ತಮ್ಮ ಅವಗಾಹನೆಗೆ ಹಾಗೂ ಮುಂದಿನ ಕ್ರಮಾನುಸರಣೆಗಾಗಿ ತಮ್ಮ ಅವಗಾಹನೆಗೆ ಸಲ್ಲಿಸಿದೆ.<br><br>18/9/24<br>ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ) |
| (17) | ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು (ಗುಣಭರವಸೆ)<br><br>ಕಂಡಿಕೆ (7) ರಿಂದ (16) ರವರೆಗಿನ ಕಾ. ಪಾ. ಅ (ಗುಣಭರವಸೆ) ಯವರ ವರದಿಯನ್ನು ಅನುಮೋದಿಸಿ ತಮ್ಮ ಅವಗಾಹನೆಗೆ ಹಾಗೂ ಮುಂದಿನ ಕ್ರಮಕ್ಕಾಗಿ ಕಳುಹಿಸಿಕೊಡಲಾಗಿದೆ.<br><br>ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು<br>ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ<br>ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ |
| (18) | ಕಾ ಪಾ ಅ (ಯೋ.ವಿ)<br>ಅವಲೋಕಿಸಿ ಮುಂದಿನ ಕ್ರಮಕ್ಕಾಗಿ ಸಲ್ಲಿಸಿದೆ.<br><br>ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು<br>ಯೋಜನೆ ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ<br>ಬೃ.ಬೆಂ.ಮ.ಪಾ. ಬೆಂಗಳೂರು - 92. |

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು ಪೂರ್ವ ವಲಯ ಬೃ.ಬೆಂ.ಮ.ಪಾ. ಬೆಂಗಳೂರು 26/24-25 25/09/24

# QUALITY ASSURANCE/ QUALITY CONTROL REPORT

| | | |
|---|---|---|
| **SE/QA/PR/ 79 /2024-25, DATE: 18/09/2024** | | |
| **Name of Work** | : | Construction of Swimming Pool at Amrutha Nagara, Byatarayanapura Ward No. 7. Estimated Cost: 700.00 Lakhs |
| **Job Code** | : | 007-15-000059 |
| **Bill No & Amount** | : | 5th & Final Bill, Rs. 1,61,97,446.00 |
| **Name of the agency** | : | Sri. K Somappa |
| **Test Reference** | : | 1. Test as per IS: 1124-1974 (RA on 1998), IS: 14223, IS: 9143, IS: 13006, ISO 10545-2, 3, 4, 6 & IS: 15622-2006 & IS: 1708-1960. |
| **Materials on which Tests Was Performed** | : | 1. SS Railings.<br>2. Granite Slab (20mm).<br>3. Vitrified Tiles 500x1200mm.<br>4. Wooden Flooring. |
| **Officers present during inspection** | : | 1. Sri. Sundresh, AEE-Project Yelahanka.<br>2. Sri. Sreedhar C, AEE–Quality Assurance.<br>3. Smt. Varalakshmi L, EE-Quality Assurance.<br>4. Smt. Malathi R, SE-Quality Assurance. |
| **Project Management Consultants** | : | **M/s. Civil Pro Consultants.** |
| **Observations** | : | • Physically verification of SS Railings, Granite Slab, Vitrified Tiles, Wooden Flooring items done by SE-QA, EE-QA and AEE-QA along with AEE-Project Yelahanka and Project Management Consultants.<br>• It was observed during inspection that mainly items such as SS Railings, Granite Slab, Vitrified Tiles, Wooden Flooring and others were executed.<br>• The tests reports for stainless steel, Granite Slab, Vitrified Tiles and Wooden Flooring are obtained from Bangalore University during execution by EE-Project Yelahanka and the same are reproduced in the tables shown below. |
| **Test Locations** | : | **Location 1:** Swimming Pool Building at Amrutha Nagara, Byatarayanapura Ward No. 7. |

18/9/24

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

18/9/24

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

19/9/2024

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಮಹಾನಗರ ಪಾಲಿಕೆ

**Table-01: Test Results of Stainless Steel.**

| Sl. No. | Details | Carbon % | Silicon % | Manganese % | Phosphorus % | Sulphur % | Chromium % | Nickel % |
|---|---|---|---|---|---|---|---|---|
| 1 | 50 mm | 0.026 | 0.614 | 1.128 | 0.016 | 0.008 | 18.21 | 8.124 |
| 2 | 40 mm | 0.031 | 0.538 | 1.109 | 0.018 | 0.005 | 18.17 | 8.131 |

**Table-02: Test Results for Granite stone (20mm) sample**

| SL No. | Details of Test | Test results | Limits as per codal provision IS:14223, Part-1:1995. | Method and Specification |
|---|---|---|---|---|
| 1. | Thickness of Stone Slab | 20.0 mm | 20.0mm, min | As per Specification |
| 2. | Water absorption | 0.29 % | 0.50 max | IS: 14223, Part-1:1995. |
| 3. | Specific Gravity | 2.76 | 2.75, min | IS 9143:1979 |
| 4. | Moisture Content | 0.06 % | 0.15 %, Max | IS: 13030-1991 |
| 5. | Dry Density | 2.648 g/cc | 2.60-0.68 | -- |
| 6. | Tensile Strength | 151.2.0 Kg/cm$^2$ | 90.0 Kg/cm$^2$, Min | IS: 13365, (1):1998 |
| 7. | Moh's Hardness | 6.6 on a scale of 10 | 6-7 | -- |

**Table-03: Test Results of Vitrified Floor Tiles**

| SI No | Test Conducted | Test Results | Requirements as per Specifications |
|---|---|---|---|
| 1 | Deviation in Length and width | +/- 0.20% | +/-0.6% |
| 2 | Deviation in Thickness | +/- 1.25% | +/- 5% |
| 3 | Straightness of Sides | +/- 0.20% | +/- 0.5% |
| 4 | Rectangularity | +/- 0.30% | +/- 0.6% |
| 5 | Surface Flatness | +/- 0.25% | +/- 0.5% |
| 6 | Surface Quality | 97.0 | 95% min |
| 7 | Water Absorption | 0.041% | Less than 0.5% |
| 8 | Scratch hardness of surface (Moh's Scale) | +6.0 | ≥ 6.0 |
| 9 | Flexural Strength (Avg MOR) | 40 N/mm2 | Not less than 35.0 N/mm2 |
| 10 | Breaking Strength | 1625 | Not less than 1300 N |

**Table-04: Test Results for Wood Flooring**

| SL No. | Details of Test | Test results |
|---|---|---|
| 1. | Moisture Content, % | 9.12 |
| 2. | Name of Wood & Species | Second class teak wood species Name: Tectona Grandis |

**Table-05: Test Results for Wood Flooring**

| SL No. | Details of Test | Test results |
|---|---|---|
| 1. | Identification of Wood (Species) | Pine Wood |
| 2. | Moisture Content (%) | 5.80 |
| 3. | Density of wood, Kg/m$^3$ | 533.0 |

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ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

## Conclusion:

The file containing 5th & final bill has been submitted above work to QA Department on 09/09/2024. Engineers of QA/QC division have visited the work spot on 10/09/2024.

The test reports for Stainless Steel, Granite Slab, Vitrified Tiles, Wooden Flooring are obtained from Bangalore University by EE-Project Yelahanka and submitted to this office is hereby reproduced in this report.

From the test results furnished by PMC consultants, it is concluded that the results of the samples collected are in accordance with the standards/ specifications mention in the BIS codes. However, the results submitted by the PMC have been reproduced here with for further needful action. The results checked by QA/QC relates only for item tested in the particular location randomly.

The concerned Engineer in charge of the work shall follow the direction issued by The Hon'le Chief Commissioner and take necessary action as appropriate in accordance with the law.

Note: -

i. This report by QA/QC is pertaining to the work carried out in 5th & final bill only.
ii. If there is any changes in the sanctioned estimate, Engineer in Charge of work shall take approval from competent authority.
iii. All Mandatory Certificates/Licence/NOC's shall be obtained from competent authorities of statutory department.
iv. Building shall be in accordance with the relevant acts/rules and bylaws.
v. The amount claimed for work slip /EIRL items shall be released to contractor upon obtaining approval from competent authority.

18/9/24 18/9/24 19/9/24

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
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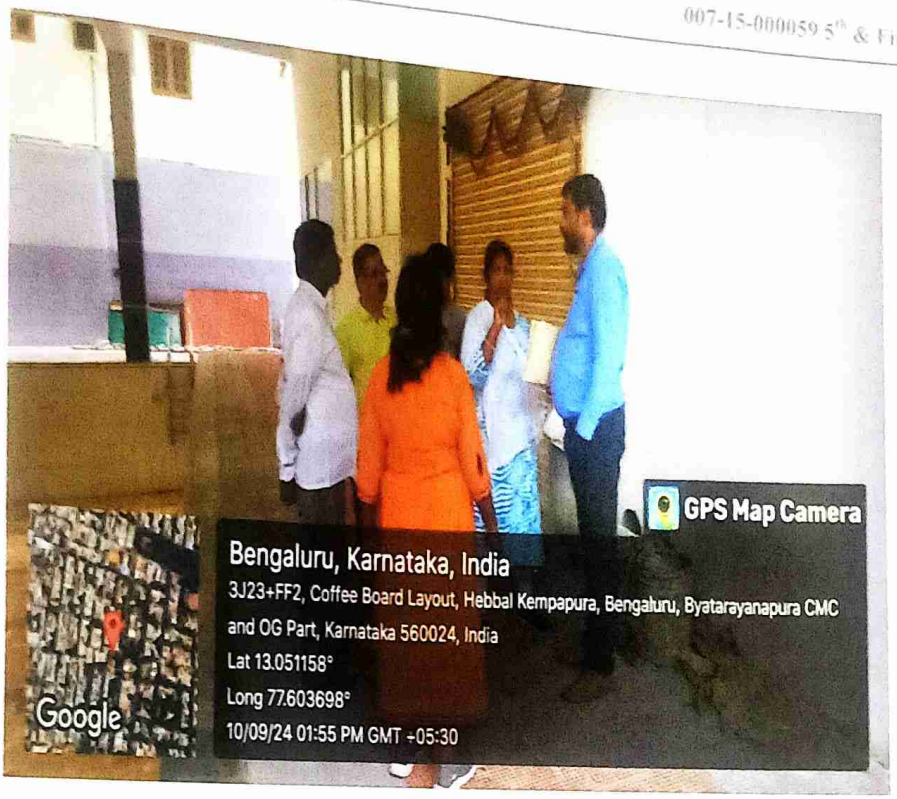


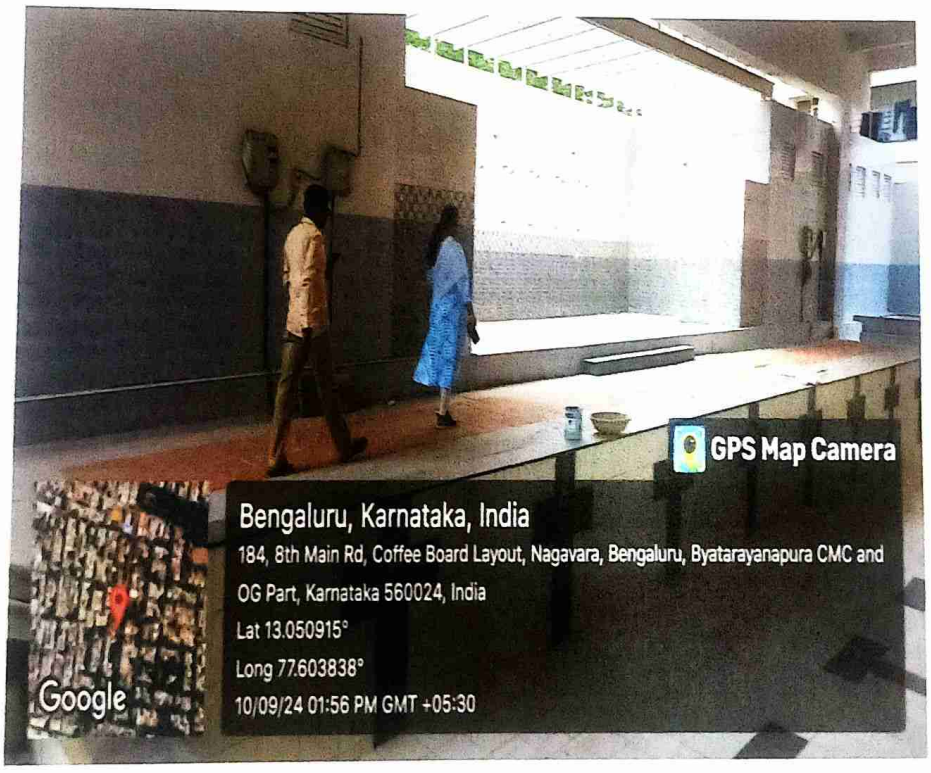


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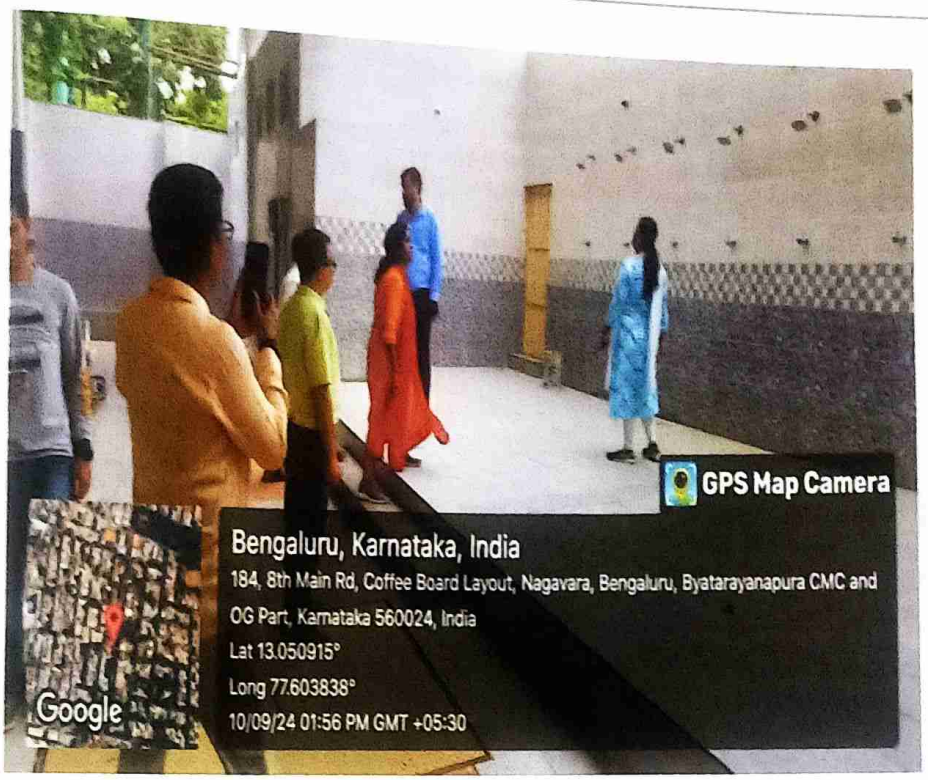


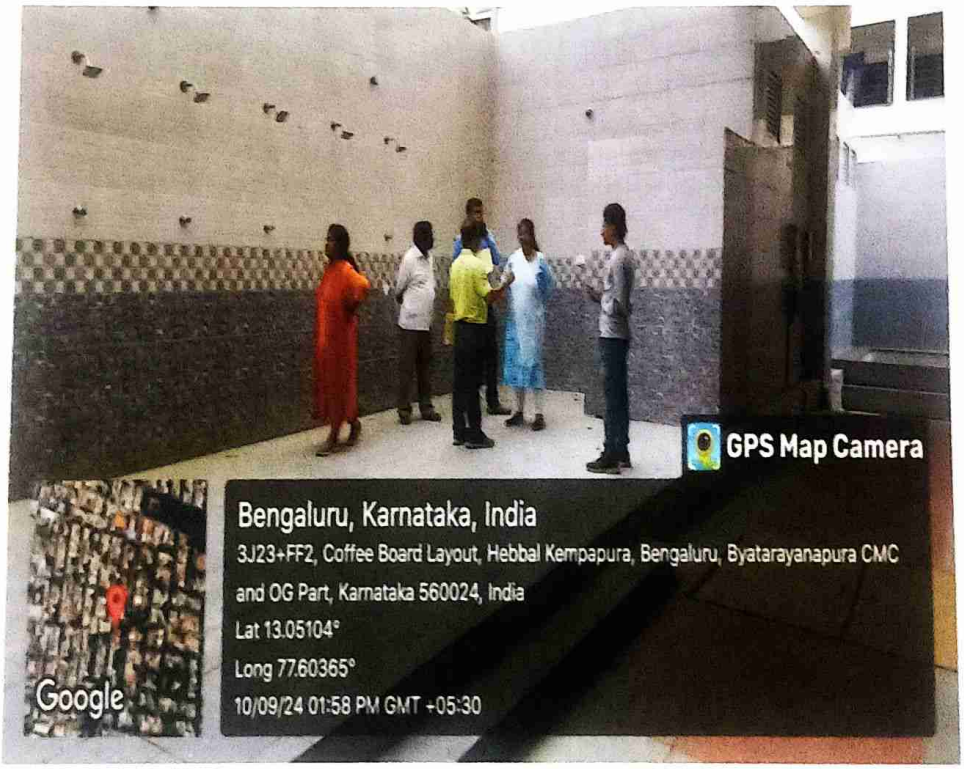


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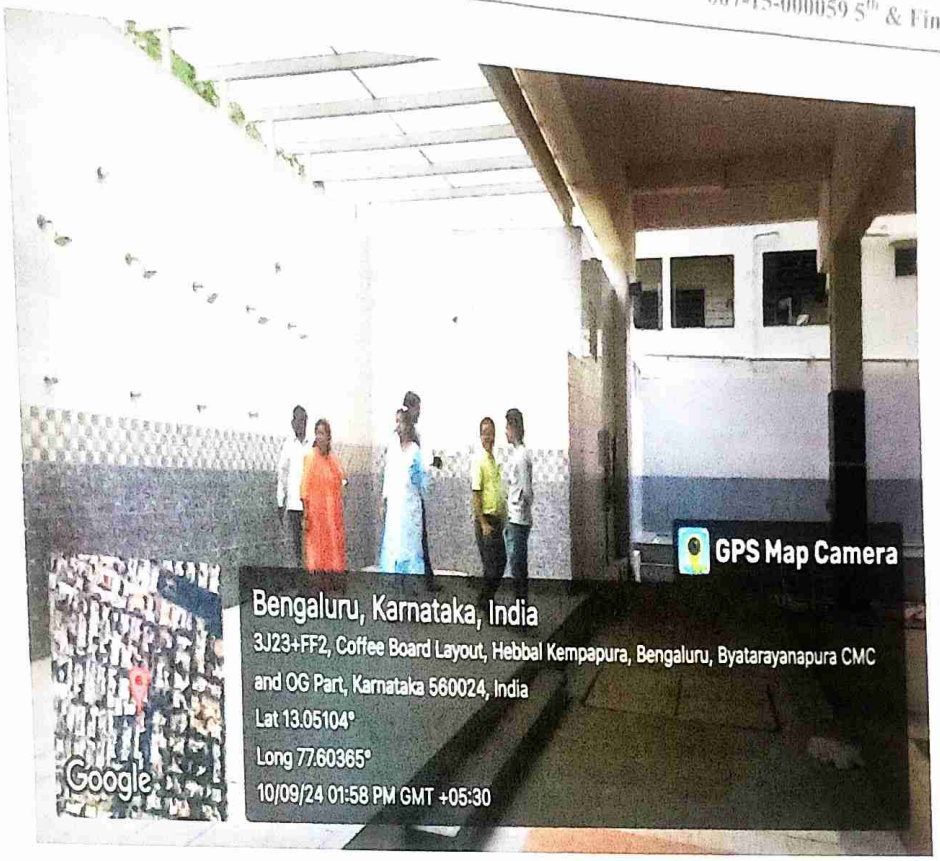


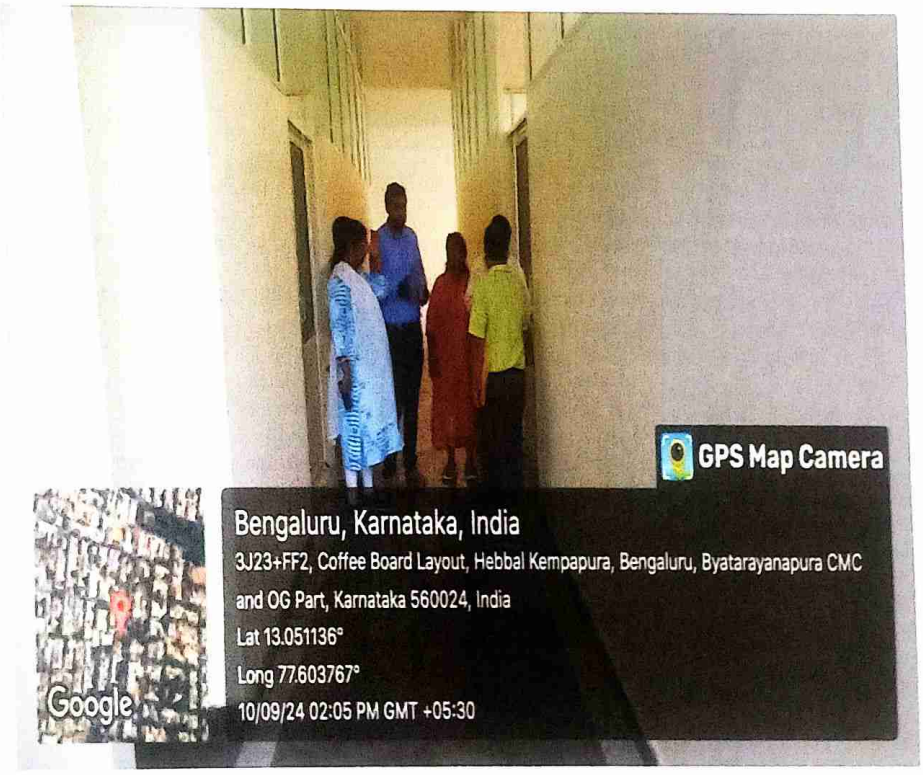


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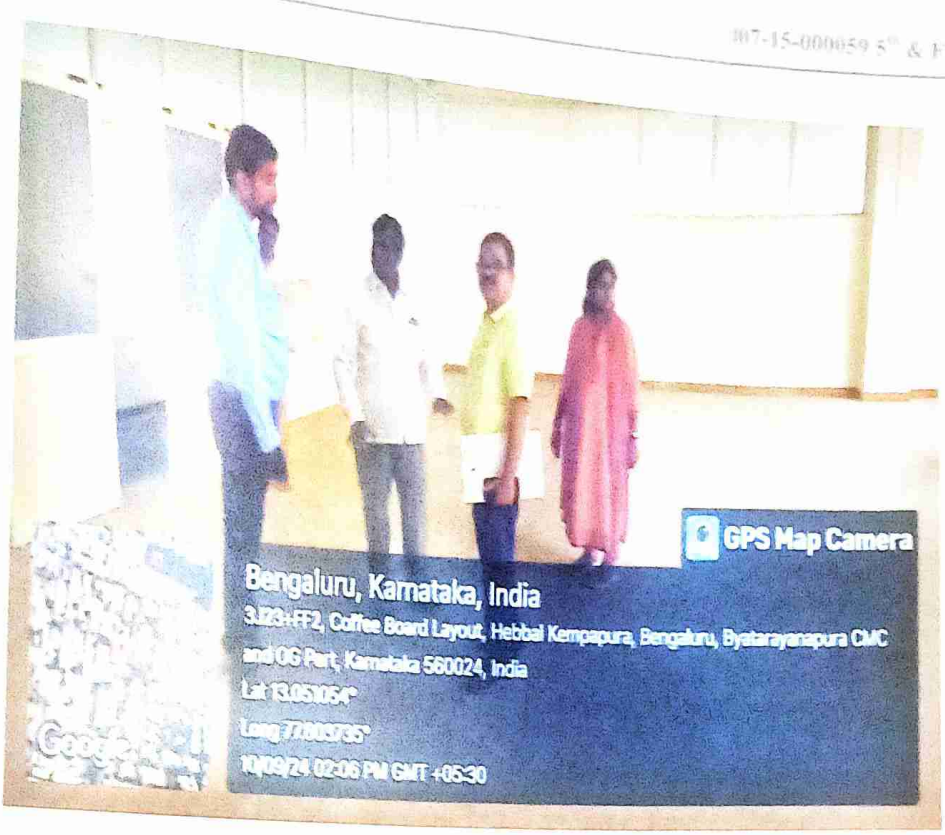


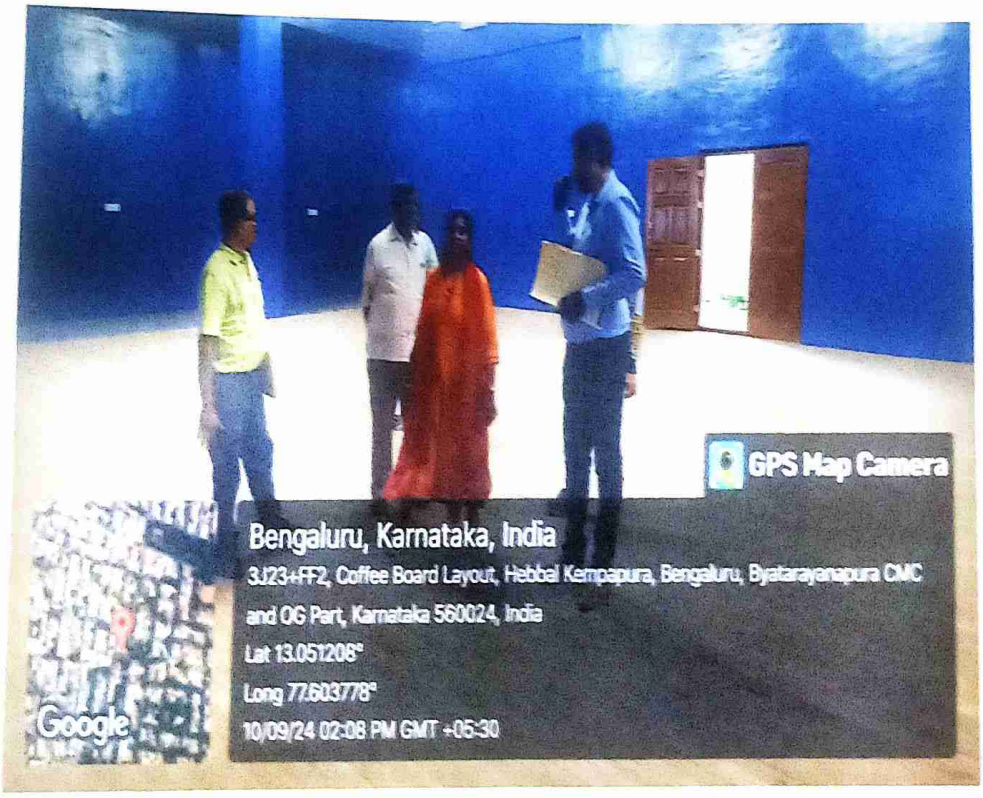


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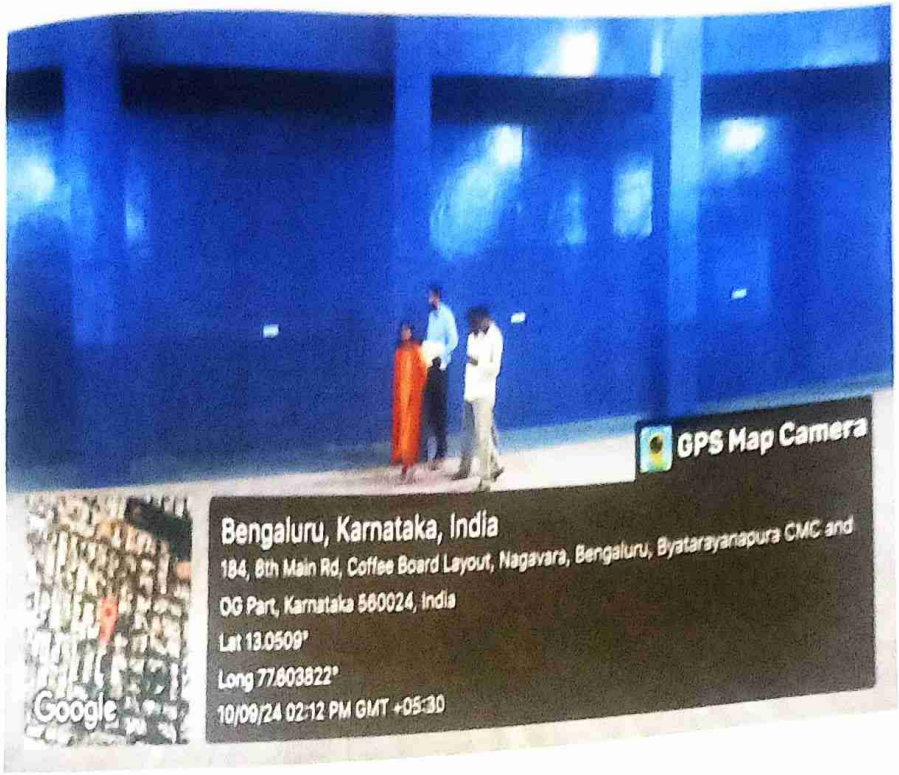


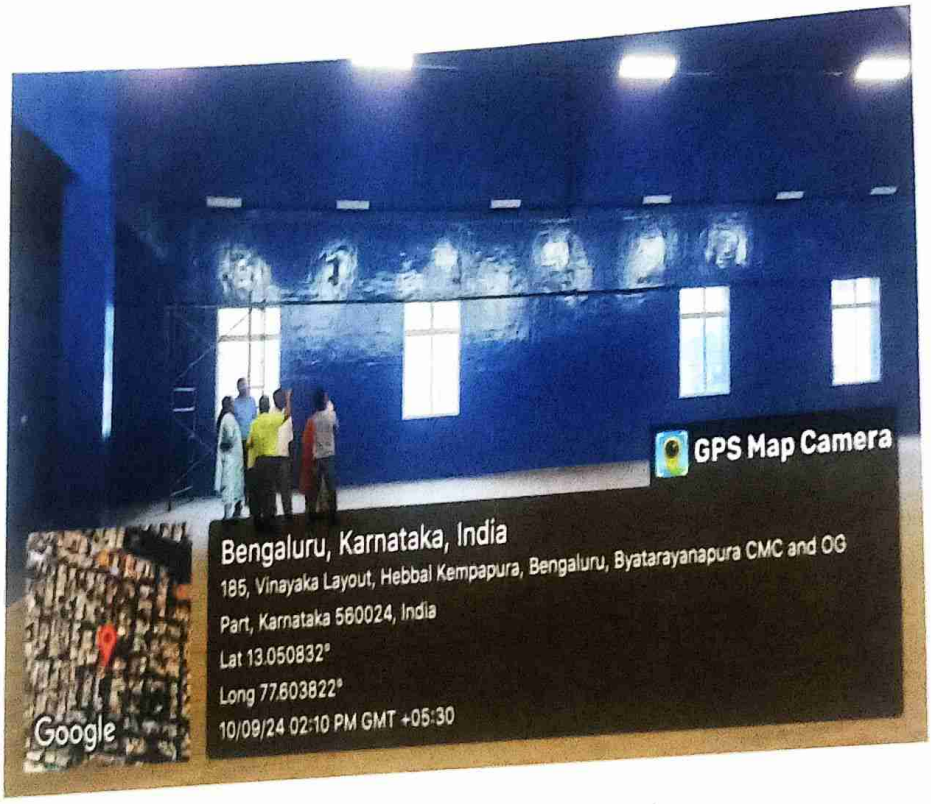


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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

18/9/24

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
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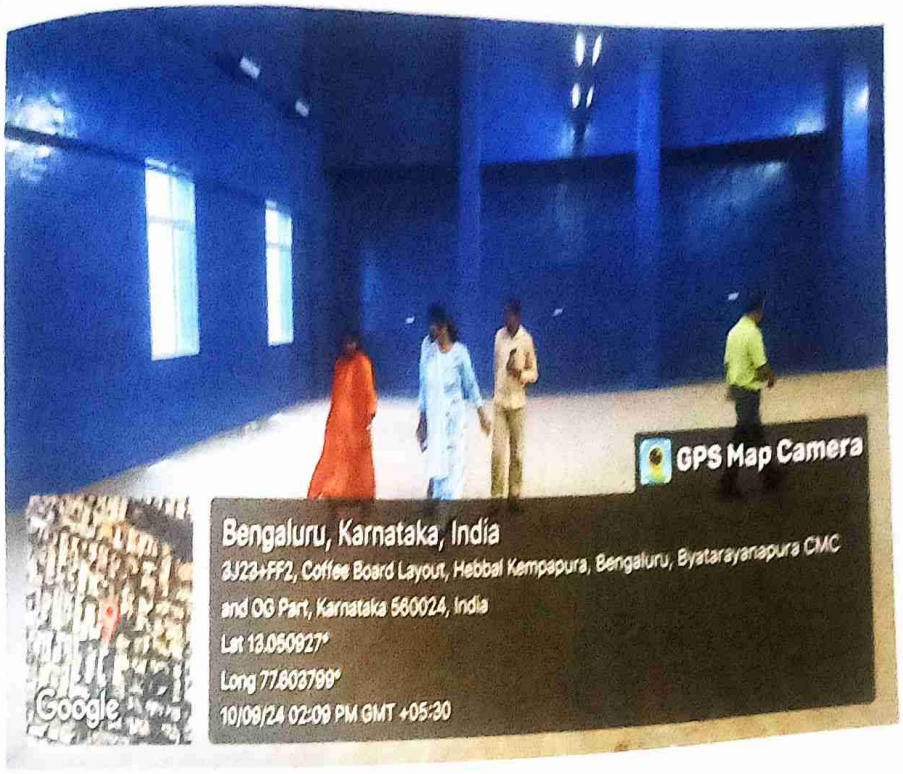


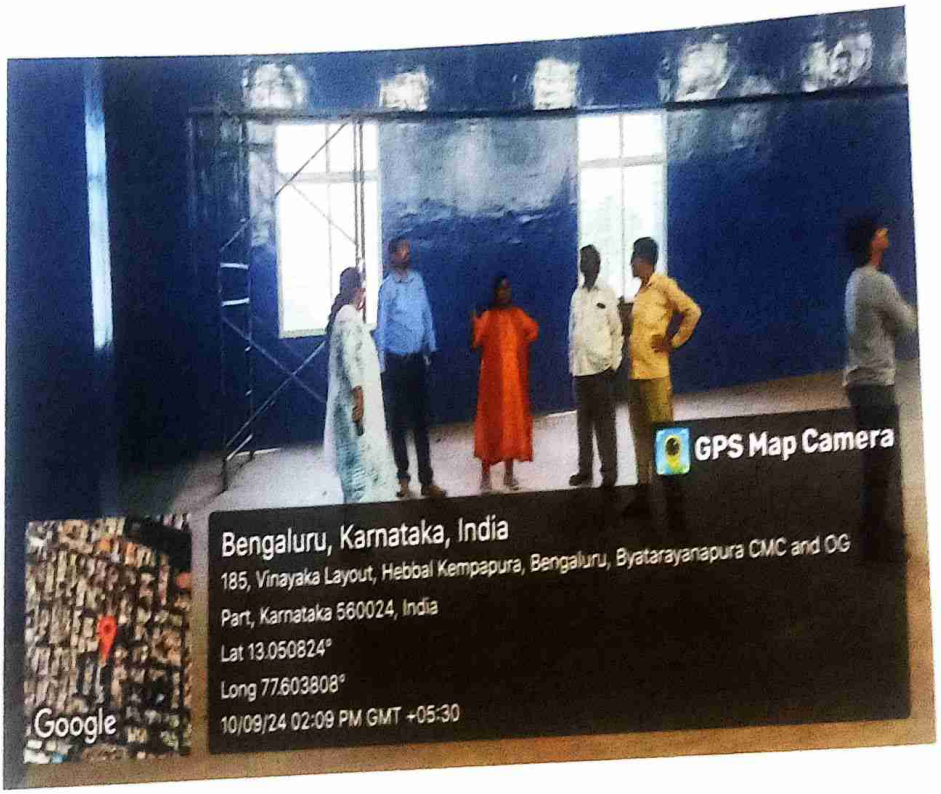


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